

Cooling-System Components

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SECTION E	PAGE 1
EFFECTIVE:	10/2/18

DKF Coolers 450 thru 2000 Gallon

Item	Part No.	⊗=Obsolete n/s=Not Shown	Description	No. Reqd per Old Style					No. Reqd per New Style—Elec/Mech				
	4015553	⊗	Cooler Assy, DKF, 450	5553									
	4015479	⊗	Cooler Assy, DKF, 600		5479								
	4015324	⊗	Cooler Assy, DKF, 800, Sgl			5324							
	4015554	⊗	Cooler Assy, DKF, 800, Dual			5554							
	4015294	⊗	Cooler Assy, DKF, 1000			5294							
	4015556	⊗	Cooler Assy, DKF, 1250			5556							
	4015530	⊗	Cooler Assy, DKF, 1500			5530							
	4015498	⊗	Cooler Assy, DKF, 2000			5498							
	4016478	⊗	Cooler Assy, DKF, 450				6478						
	4016336	⊗	Cooler Assy, DKF, 600					6336					
	4016269	⊗	Cooler Assy, DKF, 800						6269				
	4016290	⊗	Cooler Assy, DKF, 1000						6290				
	4016310	⊗	Cooler Assy, DKF, 1250							6310			
	4016350		Cooler Assy, DKF, 1500							6350			
	4016322		Cooler Assy, DKF, 2000								6322		
1 1,2	4014825	⊗	Stick Assy, Measuring	1	-	-	-	-	1	-	-	-	-
	4012683	⊗	Stick Assy, Measuring	or	1	1	-	-	or	1	1	-	-
	4016410	⊗	Stick Assy, Measuring, MM	1	or	or	-	-	1	or	or	-	-
	4016411		Stick Assy, Meas, MM, 6-800, 1000	-	1	1	-	-	-	1	1	-	-
	4012777	⊗	Stick Assy, Measuring	-	-	-	1	-	-	-	-	1	-
	4013033	⊗	Stick Assy, Measuring	-	-	-	or	1	-	-	-	or	1
	4016412		Stick Assy, Meas, MM, 1250, 1500	-	-	-	1	or	-	-	-	1	or
	4016413		Stick Assy, Meas, MM, 2000	-	-	-	1	-	-	-	-	-	1
1a 3	4016711	⊗	n/s Kit, Ext Stick, Metric	-	-	-	-	a/r	-	-	-	-	a/r
	4020209		n/s Kit, Ext Meas, MM, 2000	-	-	-	-	a/r	-	-	-	-	a/r
2	4019189	⊗	Leg Assy, SS, 8.88	2	2	2	2	-	2	2	2	2	-
	4019190	⊗	Leg Assy, SS, 10.12	2	2	2	2	-	2	2	2	2	-
	4019191	⊗	Leg Assy, SS, 11.38	-	-	2	2	-	-	-	2	2	-
	4016842	⊗	Leg Assy, SS, 9.50 Lg	-	-	-	-	2	-	-	-	-	2
	4016843	⊗	Leg Assy, SS, 10.50 Lg	-	-	-	-	2	-	-	-	-	2
	4016844	⊗	Leg Assy, SS, 11.50 Lg	-	-	-	-	2	-	-	-	-	2
3	4014666		Plug, Int, Plstc, 1.25	19	19	23	23	30	24	28	34	34	40
4 4	4012900		Cover Assy, Manhole	1									
5	4012881		Latch, Manhole-Cover	1									
6	4012882		Handle, Manhole Cover	1									
7 5	4012883		Pin, Manhole-Latch, 1.78	1									
or	4018592		Pin, Manhole-Latch, 1.50	1									
8	4012885		Ring, Retaining, Ext, E, .125	1									
9	4013284		Pin, Clevis, 3/16 Dia	1									
10	3550917	⊗	Connector, Str-Rlf, .50-.63 Dia (shown)	1									
	4018866		Bushing, Str-Rlf, Nylon, SR-7W-2	1									
11	4013600		Label, Dari-Kool, 3-1/4 x 7	2									
or	4021971		Label, Glacier, 3,25 x 7.00	2									
12	4013687	n/s	Label, Warning, Install Vent	2									
13	4018269	⊗	Gasket, End Plate, Nord	1									
14 6,7	4017479		Thermometer (Includes item 53)	1									
15	4012589		Gasket, Thermometer	1									
16	1091029		CSCR, HXH, SS, 5/16-18 x 1	4									
17	1209387		Wshr, Lock, Hcl Spr, SS, 5/16	4									
18	4015622	⊗	Gearmotor Assy, 115/230V (Includes items 19 thru 21)	1									
or	4016857		Gearmotor, Agit, Nord, 230V, 60Hz (Parts on page E-13. Includes item 51)	1									
or	4020732		Gearmotor, Agit, Nord, 50 Hz	1									
19 8	4014286	⊗	Gearbox, Agitator, Ster/Perf	1									
20 9	4015621	⊗	Motor, 1/6HP, 1Ph, 115/230V	2									
21 9	1091046		CSCR, HXH, SS, 3/8-16 x 3/4	4									
22 9	4014795	⊗	Gearbox, Agitator, Boston	1									
23 9	4014794	⊗	Shaft, Stub, Agitator	1									
24 9	4014793	⊗	Pin, Roll	1									
25	4013327	⊗	Slinger, Agitator, Rubber	1									
	4013693	⊗	Slinger, Agitator, Rubber (Replaced by 4041410)	1									
	4041410		Slinger Agitator Rubber	1									

---Parts and quantities same for all assemblies

- When replacing sticks, use Form 11P-94 to request new calibration chart.
- Later E/M coolers supplied with MM stick assemblies.
- Parts on page E-10 for external measuring stick.
- Includes items 5 thru 8.
- Earlier coolers used 4012883.
- See page E-3 for service parts for thermometer retrofit kit.
- Earlier coolers not supplied with built-in thermometers.
- When replacing Nut (item 1) on 4015692, use either 4017845 or 4012738. When replacing Nut (item 1) on 4015872, use either two of 4017845 or one of that part and one of 4012738.
- Pin needs to be welded in place to handle, 4015690.

DKF Coolers 450 thru 2000 Gallon

SECTION E	PAGE 3
EFFECTIVE: 4/15/19	

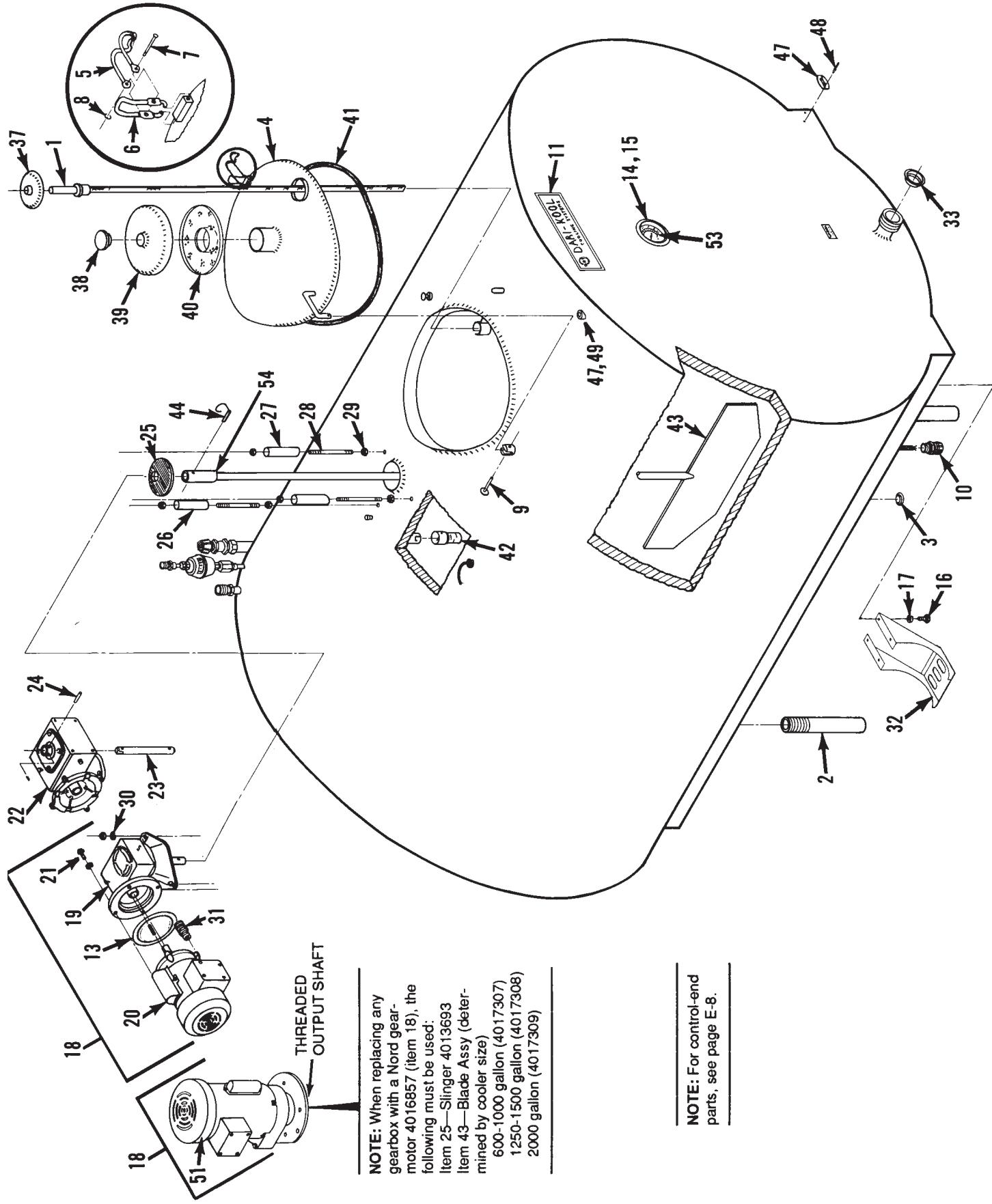
Item	Part No.	⊗=Obsolete n/s=Not Shown	Description	No. Req'd per Old Style					No. Req'd per New Style— Elec/Mech				
	4015553	⊗	Cooler Assy, DKF, 450	5553									
	4015479	⊗	Cooler Assy, DKF, 600		5479								
	4015324	⊗	Cooler Assy, DKF, 800, Sgl			5324							
	4015554	⊗	Cooler Assy, DKF, 800, Dual			5554							
	4015294	⊗	Cooler Assy, DKF, 1000			5294							
	4015556	⊗	Cooler Assy, DKF, 1250			5556							
	4015530	⊗	Cooler Assy, DKF, 1500			5530							
	4015498	⊗	Cooler Assy, DKF, 2000			5498							
	4016478	⊗	Cooler Assy, DKF, 450			6478							
	4016336	⊗	Cooler Assy, DKF, 600				6336						
	4016269	⊗	Cooler Assy, DKF, 800				6269						
	4016290	⊗	Cooler Assy, DKF, 1000				6290						
	4016310	⊗	Cooler Assy, DKF, 1250				6310						
	4016350		Cooler Assy, DKF, 1500				6350						
	4016322		Cooler Assy, DKF, 2000				6322						
26	4014893	⊗	Spacer, Agitator, 4.00 In	1									
	4017811	⊗	Spacer, Agitator, 2.50 In	1									
27	4014894	⊗	Spacer, Agitator, 4.25 In	2									
	4017812	⊗	Spacer, Agitator, 2.88 In	2									
28	4014873		Stud, Agitator, 3/8-16 x 5.75	3									
	4017813	⊗	Stud, Agitator, 3/8-16 x 4.25	3									
29	1203354		Nut, Hex, SS, 3/8-16	9									
30	1209388		Wshr, Lock, Hcl Spr, SS, 3/8	3									
31	4012584		Conn, Str-Rlf, .31-.44, 1/2NPT	1									
32	4014360	⊗	Bracket, 1Hp-Washer-Pump	1									
	4015869	⊗	Bracket Assy, Pump (shown)	1									
33	4014729		Gasket, Teflon, 2 In	1									
34	4017477	n/s	Wrench, Hex, 3.00 x 2.38	1									
35	4000253	n/s	Brush, Valve	1									
36	4010084	⊗	n/s Sign, User, Dari-Kool	1									
37	4070283	⊗	Slinger, Rubber (RBY 4041409)	1									
	4041409		Slinger, Rubber	1									
38	4012588		Plug, Int, Rbr, 1.50	1									
39	4012626		Cover, Scree-Vent	1									
40	4012627		Vent, Screen	1									
41	4012887		Gasket, Manhole Cover	1									
42	4022902	⊗	Head Assy, Spray	1									
43	4014344	⊗	Blade Assy, 600-1000, 49.25	-	1	1	-	-	-	1	1	-	-
	4017307		Blade Assy, 600-1000, 60.50	-	-	-	-	-	-	or 1	or 1	-	-
	4014119	⊗	Blade Assy, 1250-1500, 61.25	-	-	-	1	-	-	-	-	1	-
	4017308		Blade Assy, 1250-1500, 60.50	-	-	-	-	-	-	-	-	or 1	-
	4014202	⊗	Blade Assy, 2000, 64.75	-	-	-	-	1	-	-	-	-	1
	4014821	⊗	Blade Assy, 450, 41.25	1	-	-	-	or	1	-	-	-	or
	4015873	⊗	Blade Assy, 2000, 66.38	-	-	-	-	1	-	-	-	-	1
	4017309		Blade Assy, 2000, 65.75	-	-	-	-	-	-	-	-	-	or 1
44	4013352	⊗	Clip, Agitator Spring, 3/16	1	1	1	1	1	1	1	1	1	1
or	4013336	⊗	Clip, Agit-Blade, 1/4 Dia	1	1	1	1	1	1	1	1	1	1
45	4011832	⊗	n/s Stepladder, 4 Ft	-	1	1	-	-	-	1	1	1	-
46	4012891	⊗	n/s Ladder, Straight, 6 Ft (RBY 4040019)	-	-	-	1	1	-	-	-	1	1
	4040019	⊗	Ladder, Straight, 8 Ft	-	-	-	1	1	-	-	-	1	1
47	4014465	⊗	Level, Bubble, w/Holes	4	4	4	4	4	-	-	-	-	-
	4016647		Level, Circular	-	-	-	-	-	2	2	2	2	2
48	1287156		Rivet, Pop, SS, PH, 1/8 x .126-.187	8	8	8	8	8	-	-	-	-	-
49	4016648		Epoxy, Fast Set	-	-	-	-	-	a/r	a/r	a/r	a/r	a/r
50	-----		Literature 1E-96	ref	ref	ref	ref	ref	ref	ref	ref	ref	ref
51	4018400		Motor, 1/4Hp, 1Ph, 115-230V, 60Hz	1	1	1	1	1	1	1	1	1	1
52	4019432	⊗	n/s Ladder Assy, SS, 2000	-	-	-	-	-	-	-	-	-	1
53	4016697	⊗	Cover, Lens, Thermometer (Glass)	1	1	1	1	1	1	1	1	1	1
or	4017241		Cover, Lens, Therm, w/O-ring (Plastic)	1	1	1	1	1	1	1	1	1	1
54	4013325	⊗	Coupling, Agitator, Lg Hole	1	1	1	1	1	1	1	1	1	1

---Parts and quantities same for all assemblies

Note

1. Items 18-46 not supplied with basic cooler assemblies.
2. Use only with Sterling Perfection gearmotor assy, item 18 (4015622).
3. All later assemblies use bracket 4015869.
4. On later assemblies a sign, item 36, is supplied with pump assemblies.
5. When replacing blade assemblies in 600-gallon thru 2000-gallon coolers, determine total length of old blade assembly and replace with part of equal length.
6. Item 48, part number represents 30" strip.

DKF Coolers 450 thru 2000 Gallon



DKF Coolers 1500 thru 8000 Gallon

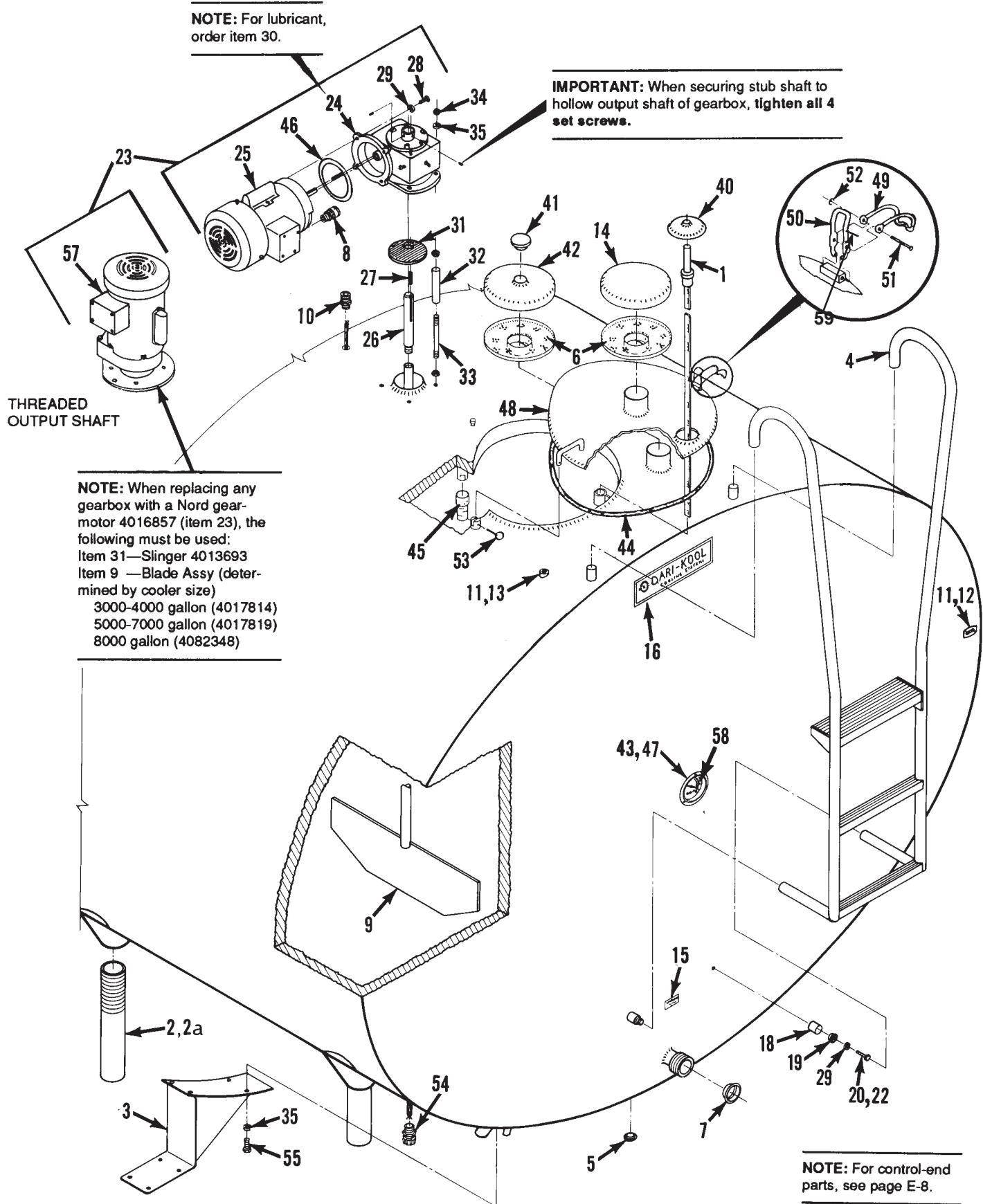
Item	Part No.	Obsolete n/s=Not Shown	Description	No. Required								
	4791354		COOLER PKG,DKF 1500,W/O CONT	1354								
	4791364		COOLER PKG,DKF 2000,W/O CONT		1364							
	4791830		COOLER PKG,GLCR 2500,W/O CONT			1830						
	4791835		COOLER PKG,GLCR 3000,W/O CONT				1835					
	4791840		COOLER PKG,GLCR 4000,W/O CONT					1840				
	4791845		COOLER PKG,GLCR,5000,W/O CONT						1845			
	4791850		COOLER PKG,GLCR,6000,W/O CONT							1850		
	4791855		COOLER PKG,GLCR,7000,W/O CONT								1855	
	4791860		COOLER PKG,GLCR,8000,W/O CONT									1860
35	1209387		WASHER,LOCK,HCL SPR,SS,5/16	8	8	8	12	12	12	12	12	12
	4012891	⊗ n/s	LADDER,STRAIGHT,6 FT (RBY 4040019)	1	1	1	1	1	1	1	1	1
36	4040019	⊗ n/s	LADDER,STRAIGHT,8' ,W/BOX (RBY 4040018)	1	1	1	1	1	1	1	1	1
	4040018	n/s	LADDER,MANHOLE,8'	-	-	1	1	1	1	1	1	1
37	4017477	n/s	TOOL,WRENCH,HEX,3.00 X 2.38	1	1	1	1	1	1	1	1	1
38	4000253	n/s	BRUSH,VALVE	1	1	1	1	1	1	1	1	1
39												
40	4070283	⊗	SLINGER,RUBBER (RBY 4041409)	1	1	1	1	1	1	1	1	1
	4041409		SLINGER,RUBBER	1	1	1	1	1	1	1	1	1
41	4012588		PLUG,INT,RBR,1.50	1	1	1	1	1	1	1	1	1
42	4012626		COVER,SCREEN-VENT	1	1	1	1	1	1	1	1	1
43	4012589		GASKET,THERMOMETER	1	1	1	1	1	1	1	1	1
44	4012887		GASKET,MANHOLE COVER	1	1	1	1	1	1	1	1	1
45	4014177	⊗	HEAD ASSY,SPRAY	1	1	2	2	2	2	2	2	2
	4022901		HEAD,SPRAY	2	2	2	2	2	2	2	2	2
and	4026618		HAIRPIN,SPRAYBALL	2	2	2	2	2	2	2	2	2
46	4018269	⊗	GASKET,END PLATE,NORD	1	1	1	1	1	1	1	1	1
47	4017479		THERMOMETER (Includes item 58)	1	1	1	1	1	1	1	1	1
48	4012900		COVER ASSY,MANHOLE (Includes items 49 thru 52.)	1	1	1	1	1	1	1	1	1
49	4012881		LATCH,MANHOLE-COVER	1	1	1	1	1	1	1	1	1
50	4012882		HANDLE,MANHOLE COVER	1	1	1	1	1	1	1	1	1
51	4018592		PIN,MANHOLE-LATCH,1.50	-	-	-	-	-	-	-	-	-
or	4012883		PIN,MANHOLE-LATCH,1.78	-	-	-	-	-	-	-	-	-
or	1096172-4		MSCR,PNH,SS,6-32 X 1-1/2	1	1	1	1	1	1	1	1	1
52	4012885		RING,RETAINING,EXT,E, .125	-	-	-	-	-	-	-	-	-
or	1207377		NUT,CAP,SS,6-32	1	1	1	1	1	1	1	1	1
53	4013284		PIN,CLEVIS,3/16 DIA	1	1	1	1	1	1	1	1	1
54	3550917-8	⊗	CONNECTOR,STR-RLF,.50-.63 DIA	1	1	1	1	1	1	1	1	1
	4018866		BUSHING,STR-RLF,NYLON,SR-7W-2	1	1	1	1	1	1	1	1	1
55	1091027		CSCR,HXH,SS,5/16-18 X 3/4	4	4	4	4	4	4	4	4	4
56	1094181		MSCR,HXH,SS,8-32 X 1/2	9	9	15	15	15	15	15	15	15
57	4018400		MOTOR,1/4HP,1PH,115-230V,60HZ	1	1	1	2	2	2	2	2	2
	4025953	⊗	MOTOR,1/4HP,1PH,110-230V,50HZ	1	1	1	2	2	2	2	2	2
58	4016697	⊗	COVER,LENS,THERMOMETER (Glass)	1	1	1	1	1	1	1	1	1
or	4017241		COVER,LENS,THERM,W/O-RING (Plastic)	1	1	1	1	1	1	1	1	1
59	4082109		TUBE,SS,.250 X .035 X 1.00	1	1	1	1	1	1	1	1	1
60	4023794	n/s	BRACKET,AGITATOR MOUNT	1	1	1	2	2	2	2	2	2
61	4021971	n/s	LABEL,GLACIER,3.25 X 7.00	2	2	2	4	4	4	4	4	4

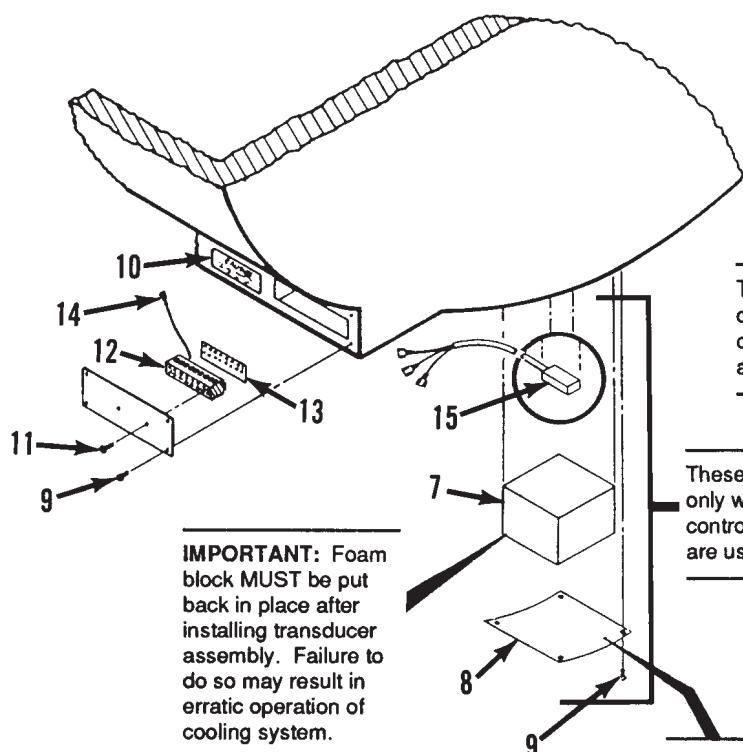
Notes:

1. When replacing sticks, use Form 11P-94 to request new calibration chart.
2. When replacing older version ladder with newer version, new mounting holes will need to be drilled.
3. When replacing blade assemblies, determine total length of old blade assembly and replace with part of equal length.
4. Item 1096172 requires 1207377 - Nut Cap, SS (Item #52) and 4082109 - Tube, SS (Item #59).
5. Only required when using Gearmotor Assy 4015771 (item 23).
6. Only required when using Gearbox 4013677. 4013677 replaced by
7. Only required for Gearmotor Assy 4015771 (item 23). Gearmotor 4016857 lubricated for life of assembly.
8. Later assemblies with .375 diameter cord used 4018866.

DKF Coolers 1500 thru 8000 Gallon

SECTION E	PAGE 7
EFFECTIVE: 10/14/96	

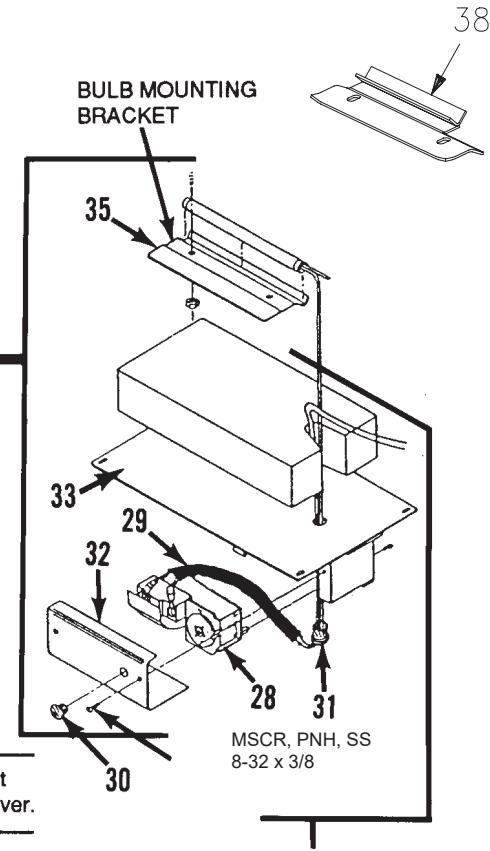


DKF Coolers 450 thru 6000 Gallon

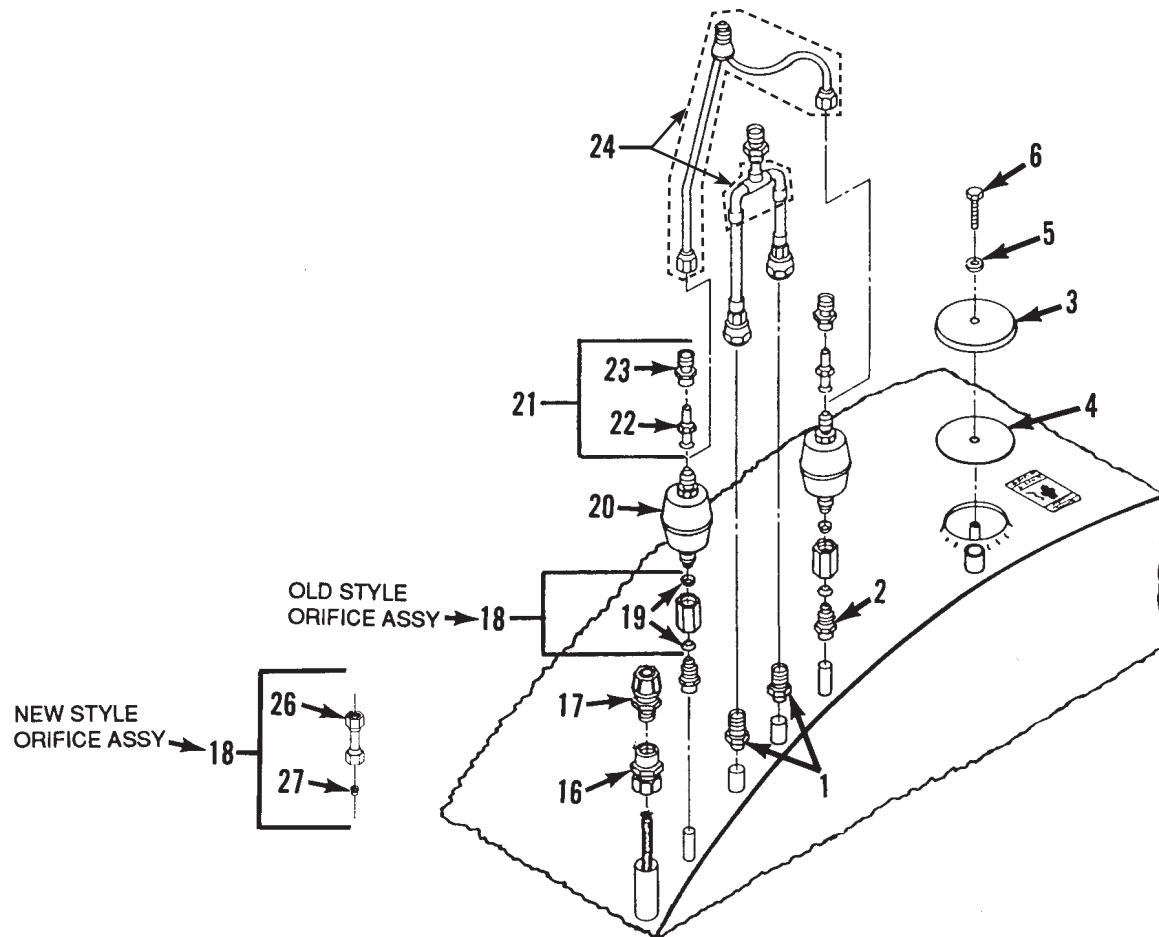
These parts required only when Deco-Matic control assemblies are used.

These parts required only when Temp-Matic control assemblies are used.

NOTE: Apply waterproof sealant around edge before replacing cover.



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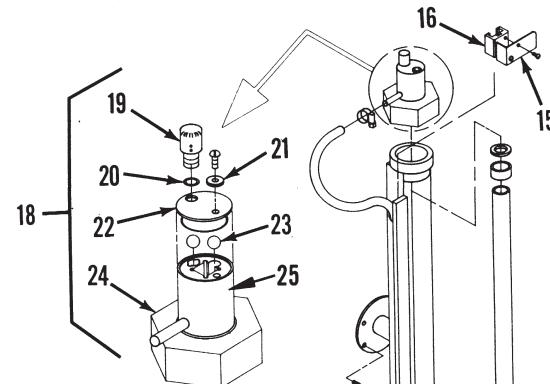
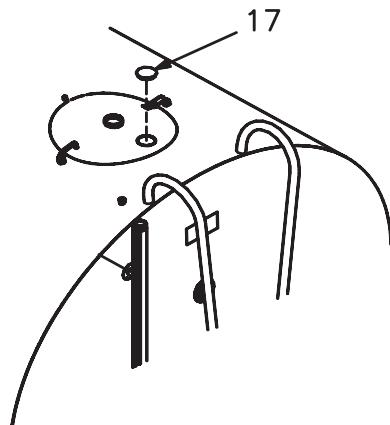


DKF Coolers 450 thru 8000 Gallon

Item	Part No.	Q=Obsolete n/s=Not Shown	Description	QTY Req'd per Old Style				QTY Req'd per New Style—Elec/Mech				SECTION	PAGE
401----	Cooler Assy, DKF, 450		5553⊗					6478⊗				E	9
401----	Cooler Assy, DKF, 600		5479⊗					6336				EFFECTIVE:	2/1/01
401----	Cooler Assy, DKF, 800		5324⊗					6269					
401----	Cooler Assy, DKF, 800, Dual		5554⊗					—					
401----	Cooler Assy, DKF, 1000		5294⊗					6290					
401----	Cooler Assy, DKF, 1250		5556⊗					6310					
401----	Cooler Assy, DKF, 1500		5530⊗					6350					
401----	Cooler Assy, DKF, 2000		5498⊗					6322					
401----	Cooler Assy, DKF, 3000			5546⊗				6452⊗					
401----	Cooler Assy, DKF, 4000			5444⊗				6447⊗					
401----	Cooler Assy, DKF, 5000				5517⊗			6464⊗					
401----	Cooler Assy, DKF, 6000				5465⊗			6471⊗					
4020027	⊗	Cooler Assy, DKF, 3000						0027					
4019816	⊗	Cooler Assy, DKF, 4000						9816					
4019581	⊗	Cooler Assy, DKF, 5000						9581					
4019580	⊗	Cooler Assy, DKF, 6000						9580					
4018907	⊗	Cooler Assy, DKF, 7000						8907					
4020607	⊗	Cooler Assy, DKF, 8000						0607					
1	4012566	⊗	Coupling, Rfgt, Male, 12-11	1	1	2	-	-	1	-	-	-	-
	4015413 ²	⊗	Coupling, Rfgt, Male, 14-11	-	-	-	2	2	-	1	2	2	4
	4015547	⊗	Coupling Assy, Quick Conn	-	-	-	-	-	-	-	-	2	-
2	1611103		Conn, Brs, 1/2Flr x 1/2Sldr	1	1	2	2	2	1	1	2	2	4
3	4015240	⊗	Cover, Junction Box	1	1	1	-	-	-	-	-	-	-
	4015424	⊗	Cover, Junction Box	-	-	-	1	1	-	-	-	-	-
	4016276		Cover, Junction Box, Rd, 4.00 Dia	-	-	-	-	-	1	1	1	1	1
4	4016289		Gasket, Cover	-	-	-	-	-	1	1	1	1	1
5	3551263		Washer, Sealing, SS, 1/4	-	-	-	-	-	1	1	1	1	1
6	1091015		CSCR, HXH, SS, 1/4-20 x 2	-	-	-	-	-	1	1	1	1	1
7	4015466	⊗	Block, Insulation	1	-	-	-	-	-	-	-	-	-
	4015291	⊗	Block, Insulation	-	1	1	-	-	-	-	-	-	-
	4013355	⊗	Block, Insulation	-	-	-	1	-	-	-	-	-	-
	4015994		Block, Insulation	-	-	-	-	1	1	1	1	1	1
8	4015292	⊗	Cover, Transducer	1	1	1	1	1	-	-	-	-	-
	4015996	⊗	Cover, Transducer	-	-	-	-	-	1	1	1	1	-
9	1096179		MSCR, PNH, SS, 8-32 x 3/8	8	8	8	8	8	-	-	-	-	-
	1094181		MSCR, HXH, SS, 8-32 x 1/2	-	-	-	-	-	4	4	4	4	-
10	4016123		Label, Caution, Disconnect-Power	1	1	1	1	1	1	1	1	1	1
11	1024179		TCSR, PNH, SS, 8-32 x 3/8 F	4	4	4	4	4	-	-	-	-	-
12	4015273	⊗	Block, Terminal, 8-Position	1	1	1	1	1	-	-	-	-	-
13	4015506	⊗	Label, Marker, Term Blk, 8-Pos	1	1	1	1	1	-	-	-	-	-
14	4015507	⊗	Wire, Ground	1	1	1	1	1	-	-	-	-	-
15	4015316	⊗	Kit, Transducer Assy	1	1	1	1	1	1	1	1	1	-
16	4015526	⊗	Adapter, 3/4 Liq-Tite x 3/4 FNPT	1	1	1	1	1	1	1	1	1	-
17	4015417		Conn, Str-Rif, .63-.75, 3/4 NPT	1	1	1	1	1	1	1	1	1	-
18	4015353	⊗	Orifice Assy, .060 Dia		Orifice Assy size depends on size of condensing or compressor unit(s) used.				-	-	-	-	-
	4015354	⊗	Orifice Assy, .070 Dia						-	-	-	-	-
	4015355	⊗	Orifice Assy, .078 Dia						-	-	-	-	-
	4016145	⊗	Orifice Assy, .093 Dia (Each includes 2 of item 19)	1	1	2	2	2	-	-	-	-	-
	4018488		Kit, Orifice, .060 Dia	-	-	-	-	-	Orifice Assy size depends on size of condensing or compressor unit(s) used.				-
	4018489		Kit, Orifice, .070 Dia	-	-	-	-	-					-
	4018490		Kit, Orifice, .078 Dia	-	-	-	-	-					-
	4018491		Kit, Orifice, .093 Dia (Each includes 1 of items 26 & 27)	-	-	-	-	-					-
19	4015336	⊗	Gasket, 1/2 Flare, Copper	2	2	4	4	4	2	2	4	4	-
20	4014699		Filter, Drier, Liquid-Line	1	1	2	2	2	1	1	2	2	4
21	4015588	⊗	Coupling Assy, Liquid-Line (Includes items 22 & 23)	1	1	2	2	2	1	1	2	2	4
22	4013885		Nut, Brass, Flare, 1/2 x 3/8 Tube	1	1	2	2	2	1	1	2	2	4
23	4012564	⊗	Coupling, Rfgt, Male, 6-6	1	1	2	2	2	1	1	2	2	4
24	4041412		Kit, Refrigeration Manifold	-	-	a/r	-	-	-	-	a/r	-	-
26	4018158		Coupling Assy	-	-	-	-	-	1	1	2	2	4
27	4018464		Orifice, .060 Dia, 3Hp	-	-	-	-	-	Orifice Assy size depends on size of condensing or compressor unit(s) used.				-
	4018465		Orifice, .070 Dia, 4Hp	-	-	-	-	-					-
	4018466		Orifice, .078 Dia, 5Hp	-	-	-	-	-					-
	4018467		Orifice, .093 Dia, 7.5Hp	-	-	-	-	-	1	1	2	2	4
28	4017278		Thermostat, Refrig, 35-45 Deg	-	-	-	-	-	1	1	1	1	1
29	4016382		Cord Assy, 2-Cond, 18 Ga x 9.5 Ft	-	-	-	-	-	1	1	1	1	1
30	3551755		Plug, Int, Plstc, 0.88	-	-	-	-	-	1	1	1	1	1
	3551818	⊗	Plug, Int, Plstc, 0.38	-	-	-	-	-	1	1	1	1	1
31	4012569		Bushing, Snap, Nylon, SB-562-6	-	-	-	-	-	1	1	1	1	1
32	4016856		Cover, Outer, W/Drain Tab	-	-	-	-	-	1	1	1	1	1
33	4016246		Plate Assy, Thermostat Control	-	-	-	-	-	1	1	1	1	1
34	4016389		Thermostat Assy (Includes items 28 thru 33)	-	-	-	-	-	1	1	1	1	1
35	4015995		Bracket, Mtg	-	-	-	-	-	1	1	1	1	1
36	4015629	n/s	Tape, Insul, Cork, .13 x 2.0	-	-	-	-	-	a/r	a/r	a/r	a/r	a/r
37	4079063		Nut, Brass, Flare, 1/2	-	-	-	-	-	1	1	2	2	4
38	4016421	⊗	Plate, Bulb Holder	-	-	-	-	-	-	-	-	-	-

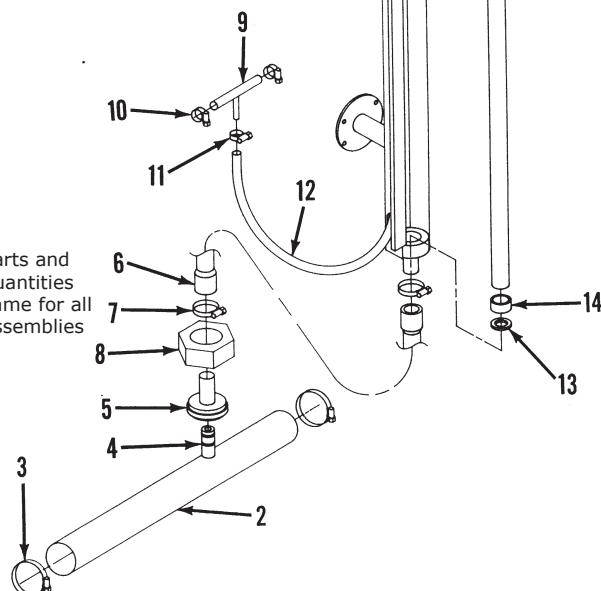
- Note:
1. Items 15 thru 27 are not included with basic coolers.
 2. Coupling is not required on newer style nitrogen charged coolers. (Glacier series)
 3. Item 14 is supplied with control cabinet.
 4. Items 15 and 16 are supplied with pump packages.
 5. Items 18 thru 24 are supplied with condensing and compressor units.
 6. Items 23 and 24 are used only to adapt 1000-gallon to a single condensing unit.
 7. Item 30 is used on earlier controls.
 8. Item 38 is a bracket for the Anderson bulb and thermostat bulb.

External Measuring Stick Kits



Item	Part No.	Description	QTY REQUIRED (a/r=As Required)				
	4024048	Kit, Ext Meas, Inch, 7000	0206				
	4020207	Kit, Ext Meas, MM, 5/6000		0207			
	4020208	Kit, Ext Meas, MM, 3/4000			0208		
	4020209	Kit, Ext Meas, MM, 2000				0209	
	4020635	Kit, Ext Meas. MM, 8000					4048
1	4024569	Tube, Glass, 1.000 x 88.750	-	-	-	-	1
	4024570	Tube, Glass, 1.000 x 78.000	1	1	-	-	-
	4024568	Tube, Glass, 1.000 x 64.750	-	-	1	1	-
2	4020190	Tube Assy, Washer, 2.00 Dia	1	1	1	1	1
	4020191	⊗ Tube Assy, Washer, 1.50 Dia	-	-	-	-	-
3	8510201	Clamp, Hose, SS, #28, 1.31-2.25	-	-	-	2	-
4	4014998	O-ring, 0.549 x .103	2				
5	4014966	⊗ Ferrule, Rdc, SS, 2.0 x 7/8	1				
6	4016611	Hose, Frmd, PVC, Reinf, .88 ID	1				
7	8510101	Clamp, Hose, SS, #20, .81-1.75	2				
8	4013118	Nut, #13H, Nylon, 2.0 In	1				
9	4020192	Tee Assy, SS, .50 x .31 x .50	1				
10	4012220	Clamp, Hose, SS, #8, .50-.91	2				
11	8510104	Clamp, Hose, SS, #7, .25-.62	2				
12	4020210	Hose, Vinyl, .25 x .094W, Clr	a/r				
13	4019893	Wshr, Rbr, .750 x 1.19 x .125	2				
14	4019892	Sleeve, Neoprene	2				
15	4019901	Cover, Slider	1				
16	4019894	Body, Slider	1				
17	4020218	Plug, Int, Rbr, 2.88	1				
18	4020161	Valve Assy, Wash/Vent, Ext, Meas <i>(Includes items 19 thru 25)</i>	1				
19	4020154	Vent, Valve, Wash/Vent	1				
20	8500264	O-ring, 0.362 x .103, Buna-N	1				
21	3551201	Washer, Sealing, SS	1				
22	8506566	O-ring, 1.364 x .070, Silicn	1				
23	4014019	Ball, Check, Rbr, .38 Dia	2				
24	4012738	Nut, #13H, Nylon, 1.5 In	1				
25	4020150	Body, Valve, Wash/Vent	1				
26	-----	Literature 1E-111 <i>(Installation Instructions)</i>	ref				
27	-----	Literature 11P-94 <i>(Recalibration Request)</i>	ref				

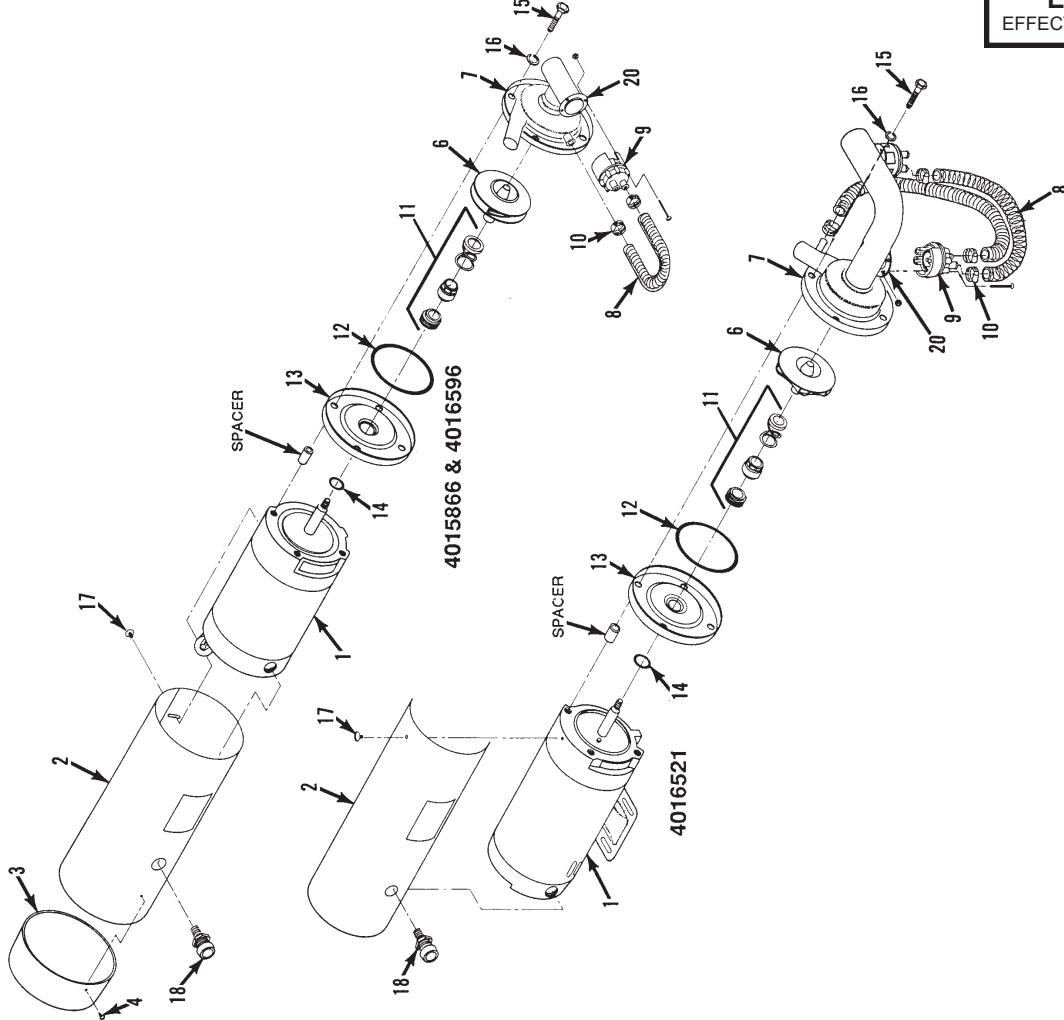
Parts and quantities same for all assemblies



Note

- When replacing old versions of external measuring stick with newer versions, new mounting holes must be drilled. See literature 9P-111.

Washer Pump Assemblies

 SECTION **E** PAGE **11**
 EFFECTIVE: **8/14/18**


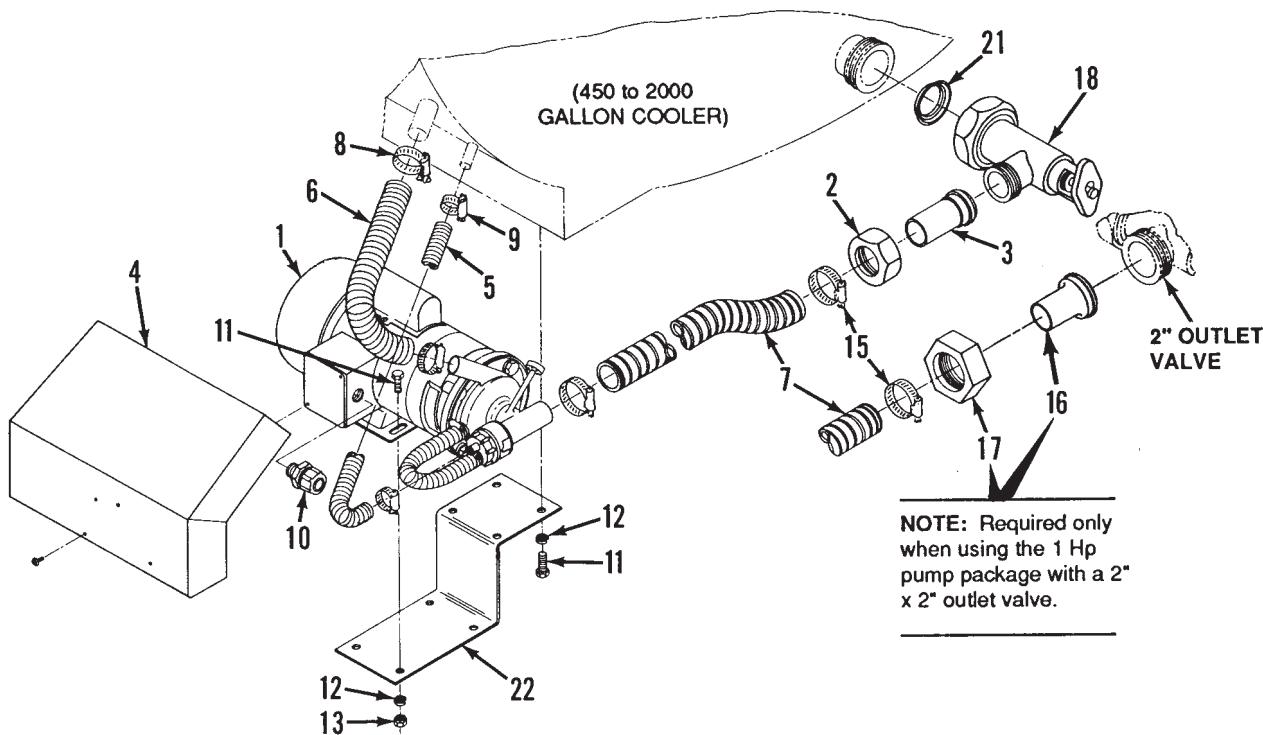
Item	Part No.	DESCRIPTION (a/r=As Req.)	QTY. REQ.
		Obsolete n/s=Not Shown	
4015866	⊗	Pump Assy, Washer, 1Hp, 60Hz	1 -
4017485	⊗	Pump Assy, Washer, 1Hp, 60Hz	1 -
4016596		Pump Assy, Washer, 1Hp, 50Hz	7485
4016521	⊗	Pump Assy, Washer, 1.5Hp	6596
1	4015773	Motor, 1Hp, 1Ph, 115/230V, 60Hz	1
	4016523	Motor, 1Hp, 1Ph, 230V, 50Hz	- 1
	4016504	Motor, 1.5Hp, 1Ph, 115/230V, 60Hz, Wash Down Duty	- 1
2	4015762	Cover, Pump, Motor, 1Hp	1
	4015761	Cover, Pump, Motor, 1.5Hp	- 1
3	4082222	Plug, Ext, Plstc, 6.00, Blk	1
4	1027265	TFSCR, PNH, SS, 8-18 x 1/2 AB	1
5	4013839	Kit, Pump, Washer (Includes items 6, 11-16 & 22)	1
6	4013997	Impeller, Pump, 1Hp	1
	4015037	Impeller, Pump, 1.5Hp	- 1
7	4014002	Housing Assy, Impeller	1
	4016533	Housing Assy, Impeller	- 1
8	4014525	Hose, PVC, Reinf, .50 x .156W	a/r
9	4014960	Valve Assy, Drain, 1Hp	1
	4015227	Valve Assy, Drain, 1.5Hp (Parts for both on page E-16)	- 2
10	4012220	Clamp, Hose, SS, #8, .50-.91	2
11	4014039	Seal Assy, Pump Shaft	1
12	4014008	O-ring, 4.725 x .210, Buna-N	1
13	4013998	Plate, Back, Pump	1
14	4014034	O-ring, 0.609 x .139, Buna-N	1
15	1091051	CSCR, HXH, SS, 3/8-16 x 1-1/2	4
16	1209388	Wsh, Lock, Hcl Spr, SS, 3/8	4
17	1096004	MSCR, PNH, SS, 1/4-20 x 3/8	1
18	4018866	Bushing, Str-Rif, Nylon, SR-7W-2	1
	1917532 ¹	Conn, Str-Rif, .27-.46, 1/2 NPT	1
19	8513814 ²	Nut, Lock, Conduit, 1/2 NPT	1
20	4013800	Plate, Mounting	1
21	- - - - 3	n/s Capacitor, Start, 124-149 Mfd, 110V	1
	- - - - 4	n/s Capacitor, Start, 189-227 Mfd, 110V	- 1
22	4014037	Spacer, RD, SS, .41 x .62 x .94	- 4

Note

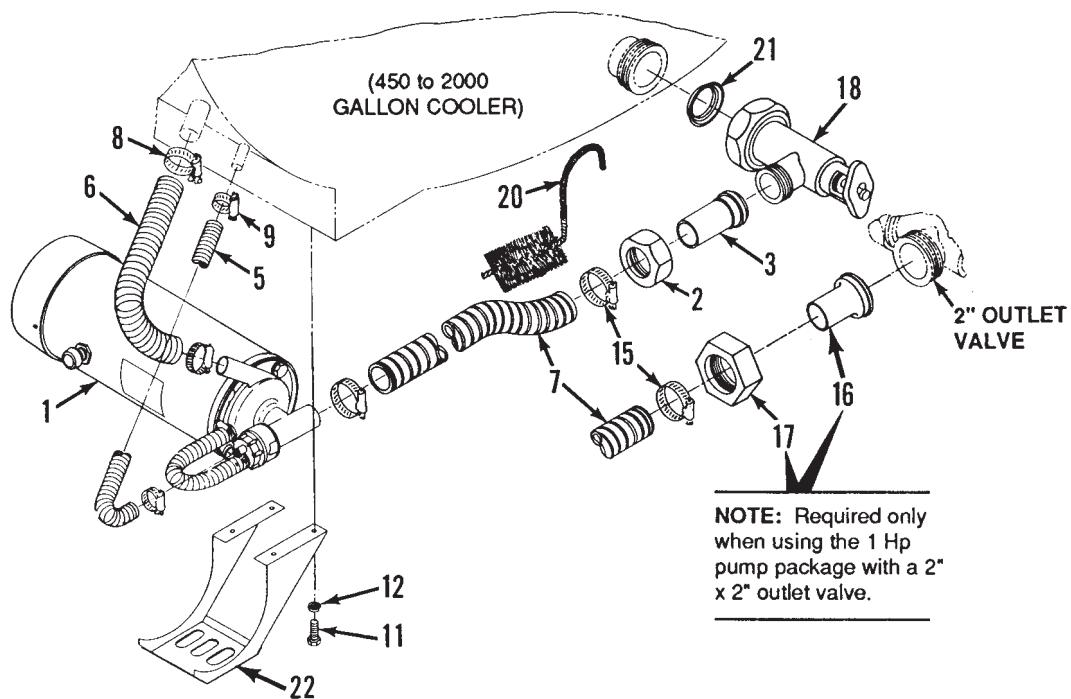
- Used on later assemblies with .375 diameter cord.
- Used only with item 18 (4018866).
- For replacement start capacitor order Magnetek/Century p/n 4-15769525.
- For replacement start capacitor order Magnetek/Century p/n 4-15769530.

1-Hp Washer Pump Package

Old Style



New Style



1-Hp Washer Pump Package

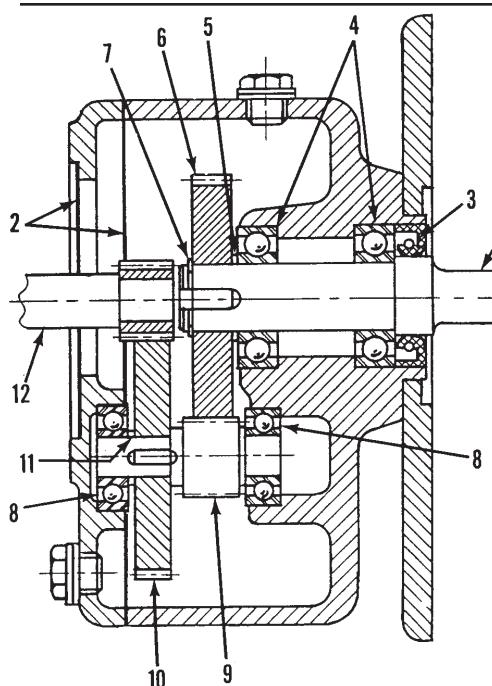
SECTION	PAGE
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EFFECTIVE: 4/15/19	

ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)
	4015612	Pump Pkg, Washer, 1 Hp, 60Hz	Old New
1	4014009	Pump Assy, Washer, 1 Hp (<i>Parts on page E-16</i>)	1 -
	4017242	Kit, Retro, Washer Pump, 1Ph, 60Hz (<i>Parts on page E-17</i> . Includes item 22 [4015869 obsolete])	or 1 -
	4015866	Pump Assy, Washer, 1 Hp, 60Hz (<i>Parts on page E-11</i>)	- 1
2	4012738	Nut, #13H, Nylon, 1.5	1 1
3	4013116	Ferrule, Nylon, 1.5 In	1 1
4	4015096	Cover, Pump Motor	1 -
5	4014525	Hose, PVC, Reinf, .50 x .156W	a/r a/r
6	4014711	Hose, PVC, Reinf, 1.0 x .188W	a/r a/r
7	4015850	Hose, Vinyl, 1.50 x 32.00	1 1
8	8510101	Clamp, Hose, SS, #20, .81-1.75	2 2
9	4012220	Clamp, Hose, SS, #8, .50-.91	2 2
10	3550917	Connector, Str-Rlf, .50-.63 Dia	1 -
11	1091029	CSCR, HXH, SS, 5/16-18 x 1	8 4
12	1209387	Wshtr, Lock, Hlcl Spr, SS, 5/16	8 4
13	1203353	Nut, Hex, SS, 5/16-18	4 -
14	4010084	Sign, User, Dari-Kool	1 1
15	8510201	Clamp, Hose, SS, #28, 1.31-2.25	2 2
16	4019774	Reducer, Coupling, 2.0 x 1.5	1 1
17	4013118	Nut, #13H, Nylon, 2.0 In (<i>See note on illustration</i>)	1 1
18	4015693	Valve, Outlet, 2 x 1.5 (<i>Parts on pages E-18 - E-20</i>)	1 1
19	4015692	Valve, Outlet, 2 x 2 (<i>Parts on pages E-18 - E-20</i>)	or 1 or 1
20	4016590	Hanger, Wash Line	- 1
21	4014729	Gasket, Teflon, 2 In	1 1
22	4014360	Bracket, 1 Hp-Washer-Pump	1 -
	4015869	Bracket Assy, Pump	- 1

Note:

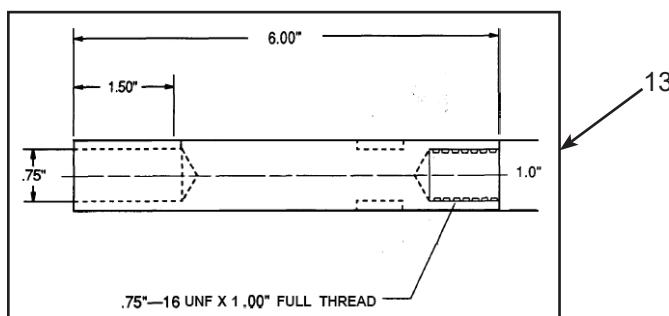
1. Items 11 and 12: four of each supplied with coolers.
2. Items 18 and 19: supplied with valve packages 4013833 and 4013834. (Packages 4013833 and 4013834 are obsolete.)

Gearmotor Assembly, Nord



ITEM	PART NO.	DESCRIPTION	QTY REQUIRED
	4016857	Gearmotor, Agitator, Nord, 230V, 60Hz	
1	4018994	Shaft, Output, Gearmotor	1
2	4019018	Kit, Reducer, Gasket, Gearmotor	1
3	4018996	Seal, Oil, Gearmotor	1
4	4018998	Bearing, Output, Gearmotor	2
5	4019002	Spacer, Gearmotor	1
6	4019003	Gear, Output, Gearmotor	1
7	4019005	Ring, Retaining, Gearmotor	1
8	4019009	Bearing, OutBd Pinion, Gearmotor	2
9	4019010	Pinion, Output, Gearmotor	1
10	4019012	Gear, Input, Gearmotor	1
11	4019017	Shim, Gearmotor	1
12	4018400	Motor, 1/4Hp, 1Ph, 115-230V, 60Hz	1
13	4020492	n/s Adapter, Agitator Shaft	1

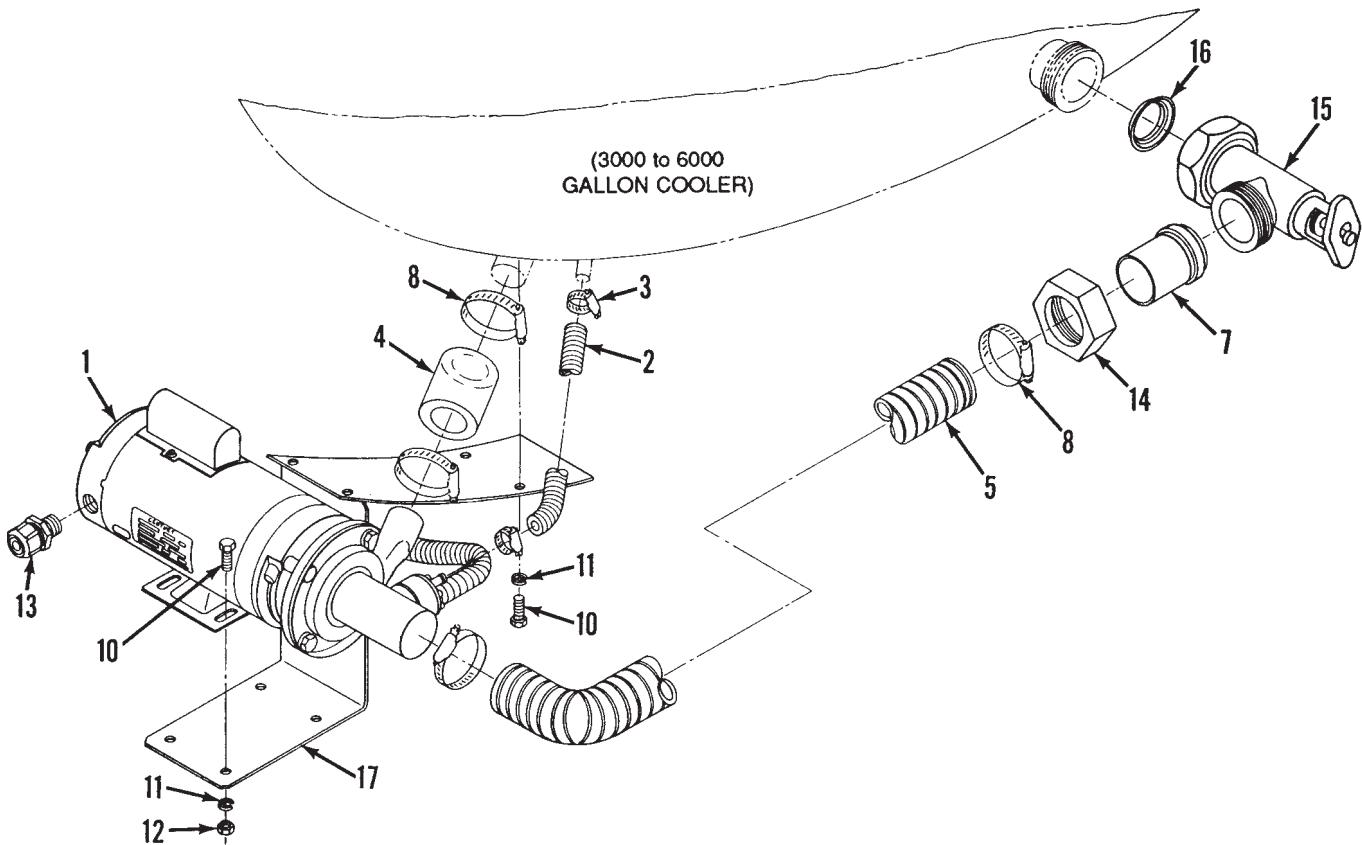
Note: Agitator adapter shaft (4020492) will adapt from a Nord gearbox to an agitator blade. The adapter shaft is 6 in. long and 1 in. diameter. It has a 3/4 in. hole on one end and is threaded for the Nord gearbox on the other end. Field fabrication is required.



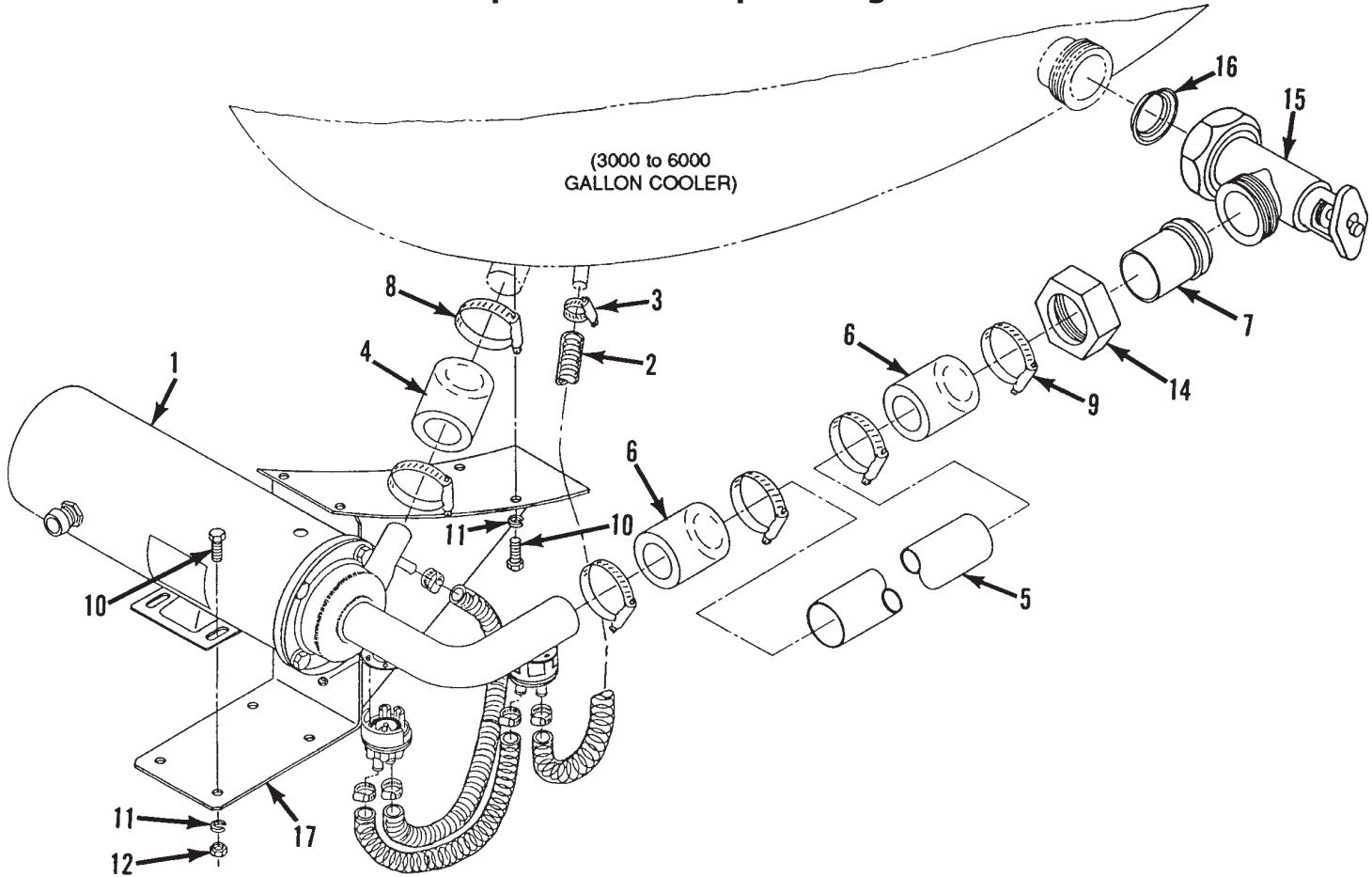
Gearmotor Lubrication Specifications

Lubrication Group: ISO VG 220
Mobil - Mobilgear 630
Esso - Spartan EP 220
Shell - Omala Oil 220
Sunoco - Sunep 1070
Texaco - Meropa 220

1.5 Hp Washer Pump Package



1.5 Hp Washer Pump Packages



1.5-Hp Washer Pump Packages

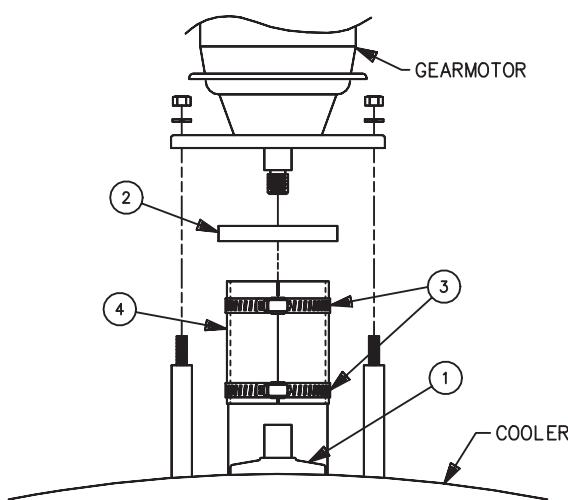
SECTION E	PAGE 15
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ITEM	PART NO.	Obsolete	DESCRIPTION	QTY REQUIRED (a/r=As Required)		
	4015613	⊗	Pump Pkg, Washer, 1.5Hp, 3-6000	5613	-	-
	4016592		Pump Pkg, Washer, 1.5Hp, 3-4000		6592	
	4016593		Pump Pkg, Washer, 1.5Hp, 5-7000		6593	
1	4015090 ¹	⊗	Pump Assy, Washer, 1.5Hp	1	-	-
	4016521	⊗	Pump Assy, Washer, 1.5Hp (Parts on page E-11)	-	1	1
2	4014525		Hose, PVC, Reinf, .50 x .156W	a/r	a/r	a/r
3	4012220		Clamp, Hose, SS, #8, .50-.91	2	2	2
4	4015850		Hose, Vinyl, 1.50 x 32.00	a/r	a/r	a/r
5	4015092		Hose, Vinyl, 2.00 x .25W	a/r	-	-
	4016542		Tube, SS, 2.00 x .049 x 16.75	-	1	-
	4016543	⊗	Tube, SS, 2.00 x .049 x 18.25	-	-	1
	4020159 ²		Tube, SS, 2.00 x .049 x 15.00	-	-	1
6	4015092		Hose, Vinyl, 2.00 x .25W	-	a/r	a/r
7	4017844		Ferrule, SS, 2 In	1	1	1
8	8510201		Clamp, Hose, SS, #28, 1.31-2.25	4	2	2
9	8514033 ³		Clamp, Hose, SS, #36, 1.80-2.75	-	4	4
10	1091029 ³		CSCR, HXH, SS, 5/16-18 x 1	8	8	8
11	1209387		Wshr, Lock, Hlcl Spr, SS, 5/16	8	8	8
12	1203353		Nut, Hex, SS, 5/16-18	4	4	4
13	3550917	⊗	Connector, Str-Rlf, .50-.63 Dia	1	-	-
14	4013118 ^{4,5}		Nut, #13H, Nylon, 2.0 In	1	1	1
15	4015692 ^{4,5}		Valve, Outlet, 2 x 2 (Parts on page E-20)	1	1	1
16	4014729 ^{4,5}		Gasket, Teflon, 2 In	1	1	1
17	4015125		Bracket, 1.5Hp-Washer-Pump	1	1	-

Note:

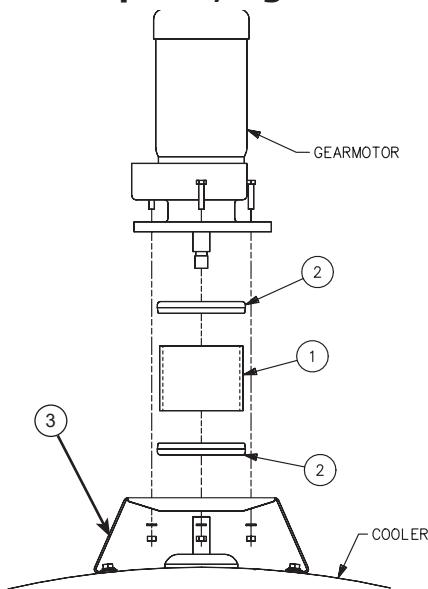
1. When replacing Pump with Pump Assy 4016521, items 5 (either 4016542 or 4020859, which is obsolete, & 6 will also be needed.
2. When replacing tube 4016543, which is obsolete, with shorter tube 4020159, a new version of item 6 (4015092), a longer hose, will be needed.
3. Four of each supplied with coolers.
4. Supplied with Valve package 4013833. Package 4013833 is obsolete.
5. Not supplied with pump packages, but shown here.

Kit, Weatherproof Cover



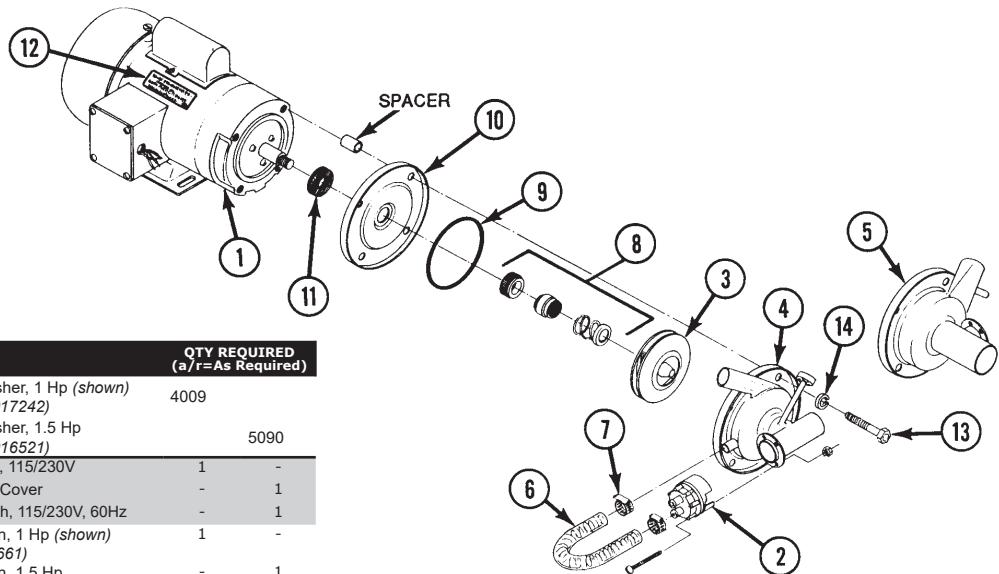
ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)
1	4016496	Kit, Weather-Proof Cover	1
2	4016494	Grommet Assy, Agitator, W.P.	1
3	4016428	Gasket, Agitator	1
4	8510105	Clamp, Hose, SS, #56, 2.13-4.00	2
5	4016427	Cover, Protective Set	1
	-----	Literature 1P-105 (Installation instructions)	a/r

Kit, Weatherproof, Agitator Mount



ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)
1	4024220	Kit, WeatherProof, Agitator Mnt	1
2	4024222	Tube, Acrylic, 5.00 x .19 x 3.50	1
3	4024223	Gasket, Endless, Agitator Kit	2
4	4023794	Bracket, Agitator Mount	1
	-----	Literature 1E-187 (Installation instructions)	a/r

Washer Pump Assemblies



ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)
	4014009	Pump Assy, Washer, 1 Hp (shown) (Replaced by 4017242)	4009
	4015090	Pump Assy, Washer, 1.5 Hp (Replaced by 4016521)	5090
1	4013836	Motor, 1HP, 1Ph, 115/230V	1 -
	4016505	n/s Motor, 1.5Hp, w/Cover	- 1
	4016504 ³	Motor, 1.5Hp, 1Ph, 115/230V, 60Hz	- 1
2	4014960	Valve Assy, Drain, 1 Hp (shown) (Replaces 4013661)	1 -
	4015227	Valve Assy, Drain, 1.5 Hp	- 1
3	4013997	Impeller, Pump, 1Hp	1 -
	4015037	Impeller, Pump, 1.5Hp	- 1
4	4014002	Housing Assy, Impeller	1 -
5	4015035	Housing Assy, Impeller	- 1
6	4014525	Hose, PVC, Reinf., .50 x .156W	a/r
7	4012220	Clamp, Hose, SS, #8, .50-.91	2
8	4014039	Seal Assy, Pump Shaft	1
9	4014008	O-ring, 4.725 x .210, Buna-N	1 Parts and quantities for all assemblies
10	4013998	Plate, Back, Pump	1 same
11	4014034	O-ring, 0.609 x .139, Buna-N	1
12	4014818	Label, Pump, Deco-Matic II	1
13	1091051	CSCR, HXH, SS, 3/8-16 x 1-1/2	4
14	1209388	Washer, Lock, Hlcl Spr, SS, 3/8	4
15	- - - - 1	Capacitor, Start, 189-227Mfd, 110V	1 -
	- - - - 2	Capacitor, Start, 378-455Mfd, 110V	- 1

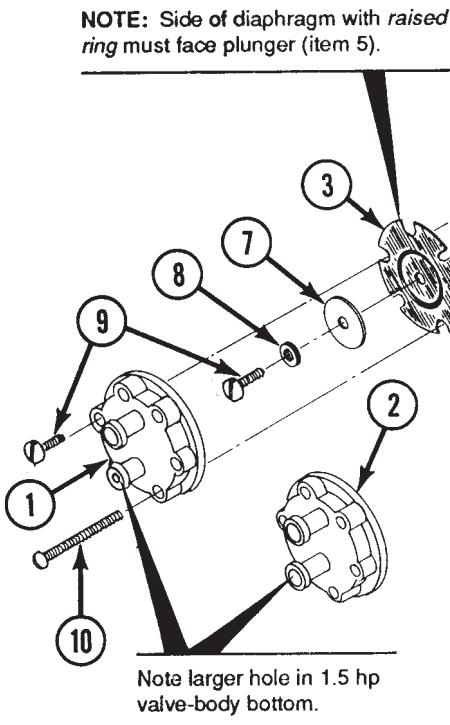
Note:

1. For replacement start capacitor order Magnetek/Century part no. 4-15769530.
2. For replacement start capacitor order Magnetek/Century part no. 4-15769543.

Note

1. For replacement start capacitor order Magnetek/Century part no. 4-15769530.
2. For replacement start capacitor order Magnetek/Century part no. 4-15769543.
3. 4016504 is a direct replacement for 4016505.

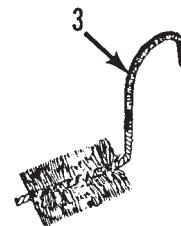
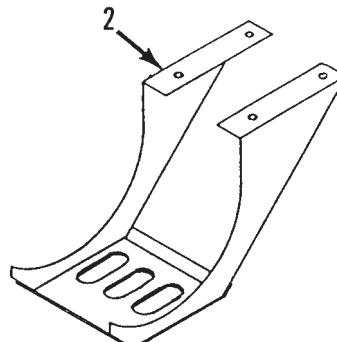
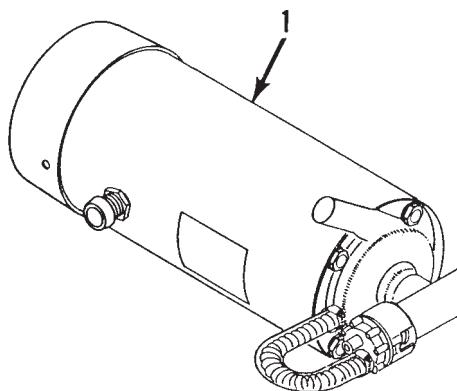
Drain Valve Assemblies



ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)
	4014960	Valve Assy, Drain, 1 Hp (shown)	4960
	4015227	Valve Assy, Drain, 1.5 Hp	5227
1	4014485	Bottom, Valve-Body, 1.0Hp	1 -
2	4015226	Bottom, Valve-Body, 1.5Hp	- 1
3	4013672	Diaphragm, Drain Valve	1
4	4014601	Top, Valve-Body	1
5	4014602	Plunger, Drain-Valve	1
6	4013667	Disk, Rubber Plunger	1 Parts and quantities same for all assemblies
7	4013668	Wsh, SS, .196 x 1.06 x .036	2
8	3551201	Washer, Sealing, SS	1
9	1096200	MSCR, PNH, SS, 10-24 x 1/2	3
10	1002207	MSCR, RDH, SS, 10-24 x 1-1/2	4
11	1204379	Nut, Hex, Mscr, SS, 10-24	5

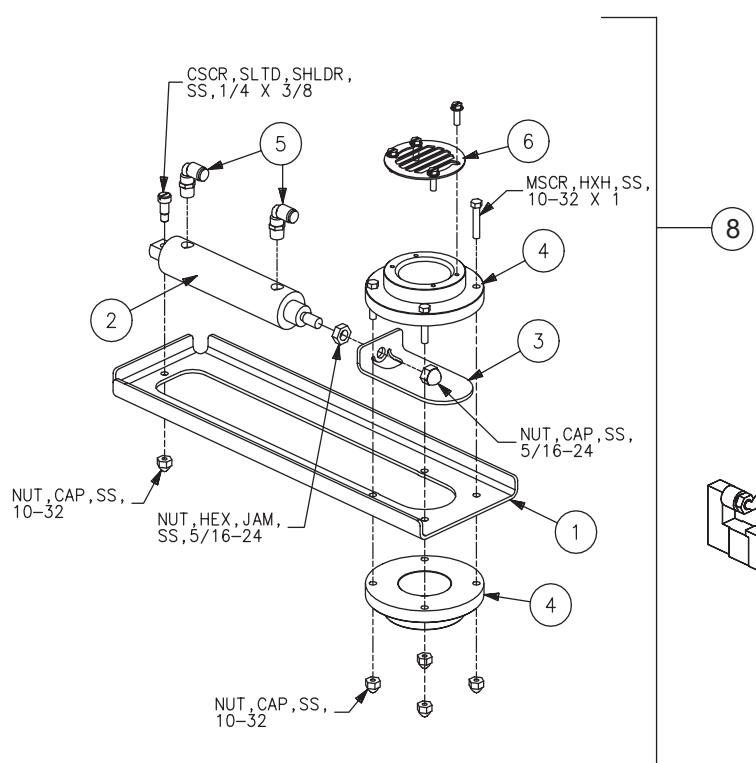
Washer Pump Retro-Kit 1-Hp

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ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)
	4017242	Kit, Retro, Washer Pump, 1Hp, 60Hz	
1	4017485	⊗ Pump Assy, Washer, 1Hp, 60Hz (Parts on page E-11)	1
2	4015869	⊗ Bracket Assy, Pump	1
3	4016590	Hanger, Wash Line	1

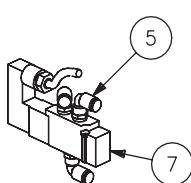
Drain Valve Kit, Air



ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)
	4023924	Kit, Drain Valve, Air	
1	8510268 ¹	Frame, Drain Valve	1
2	4024403 ¹	Cylinder, Drain Valve	1
3	8510267 ¹	Slide, Drain Valve	1
4	4024404 ¹	Body, Drain Valve	2
5	3554451 ¹	Conn, Swl, Elb, 5/32 OD x 1/8 NPT	2
6	4024409 ¹	Guard, Drain Valve	1
7	4023923	Valve, 4-Way, Air, 220VAC	1
8	4024400	Valve Assy, Drain Valve (Includes items 1 thru 6)	1
9	8506554	O-Ring, 1.421 x .139, Silicone (n/s)	1
10	1005265	TFSCR, HXWH, SS, 8-18 x 1/2	4
11	3556157	Grommet, Multiple, 5/32	1
12	- - - - -	Literature 1E-183 (Installation instructions)	ref

Note:

1. Items are included in Drain Valve Assembly (4024400).



Outlet Valves

Valve, Outlet, 2 x 2 In

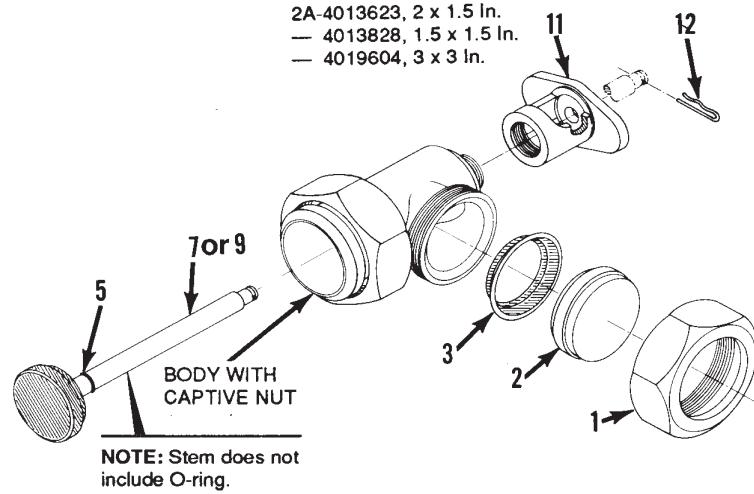
Current Version



STYLE "A"

1A-4013549, 2 x 2 In.
2A-4013623, 2 x 1.5 In.
— 4013828, 1.5 x 1.5 In.
— 4019604, 3 x 3 In.

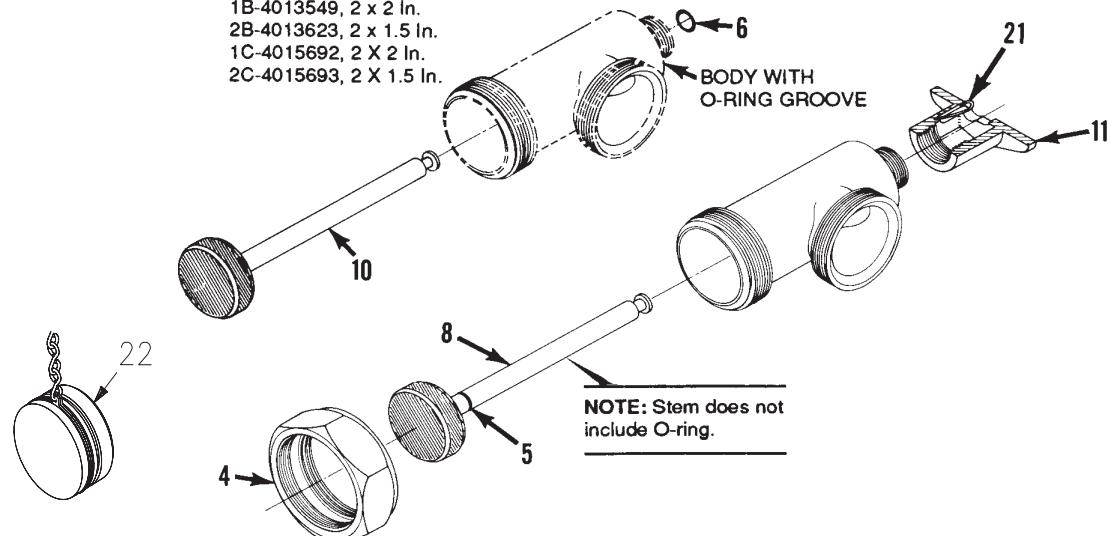
Earlier Version



STYLE "B"

1B-4013549, 2 x 2 In.
2B-4013623, 2 x 1.5 In.
1C-4015692, 2 X 2 In.
2C-4015693, 2 X 1.5 In.

Earlier Version



Outlet Valves

Valve, Outlet, 2 x 2 In NY

SECTION

PAGE

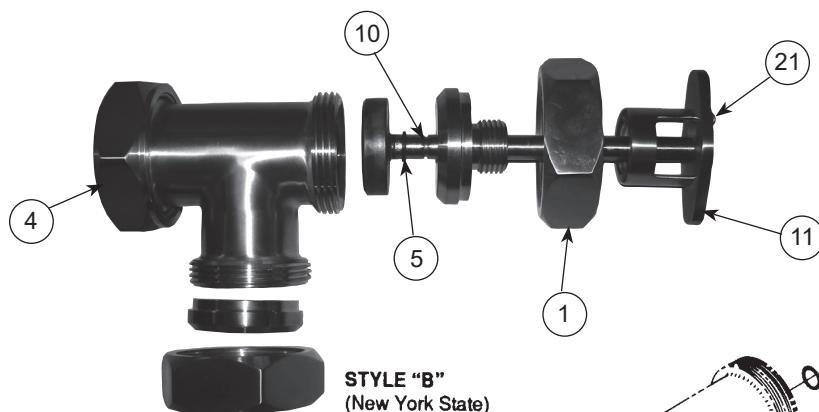
E

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EFFECTIVE:

11/27/17

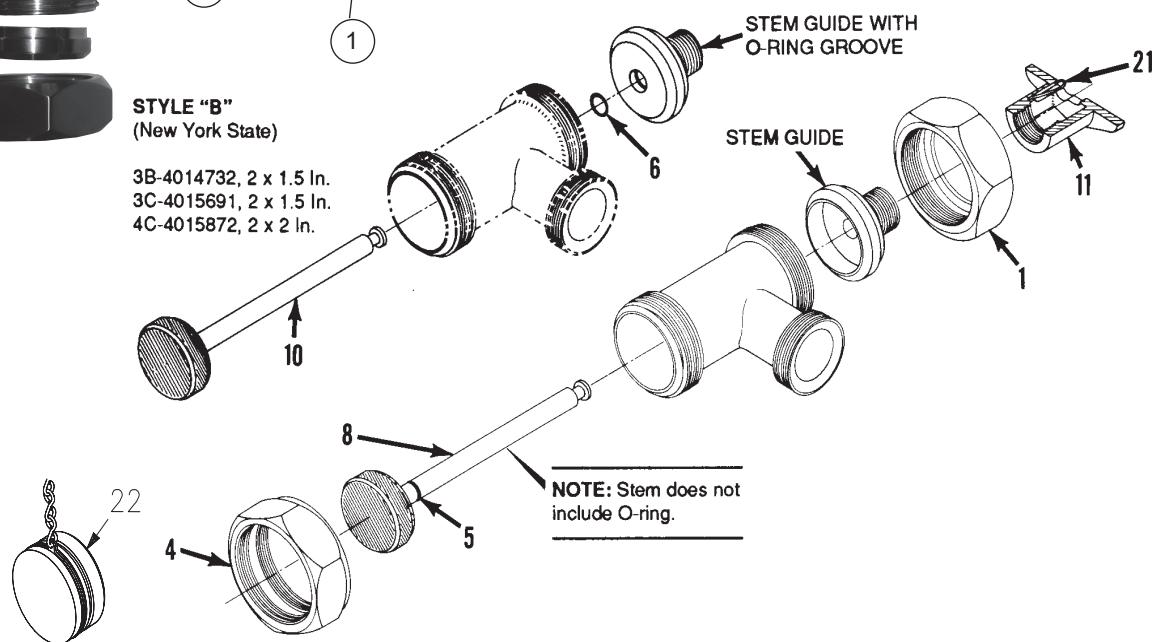
Current Versions



STYLE "B"
(New York State)

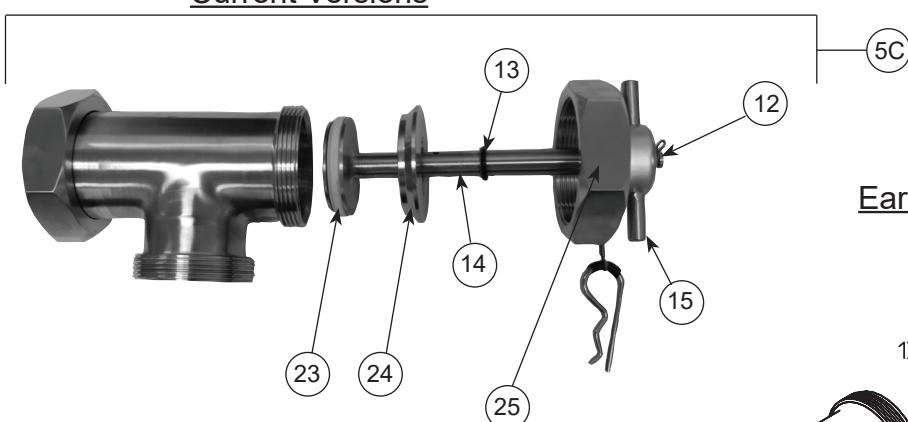
3B-4014732, 2 x 1.5 In.
3C-4015691, 2 x 1.5 In.
4C-4015872, 2 x 2 In.

Earlier Versions

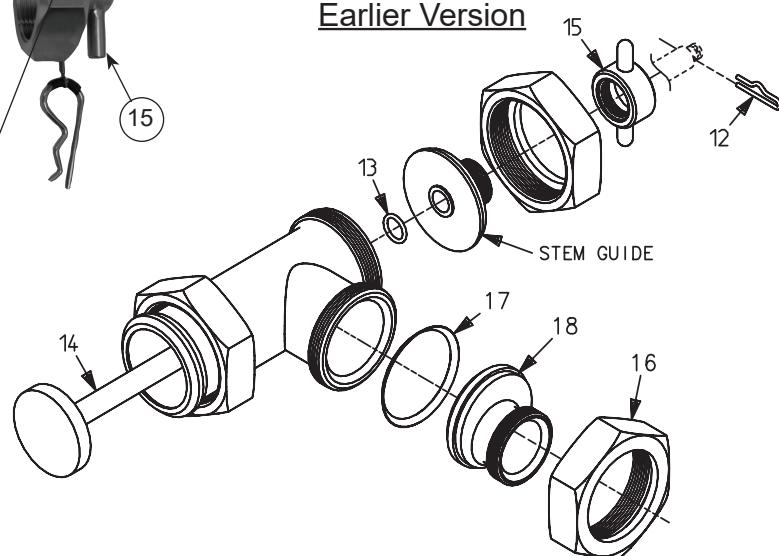


Current Versions

Valve, Outlet, 3 x 3



Earlier Version



Outlet Valves

Valve, Outlet, 2 x 2 In NY

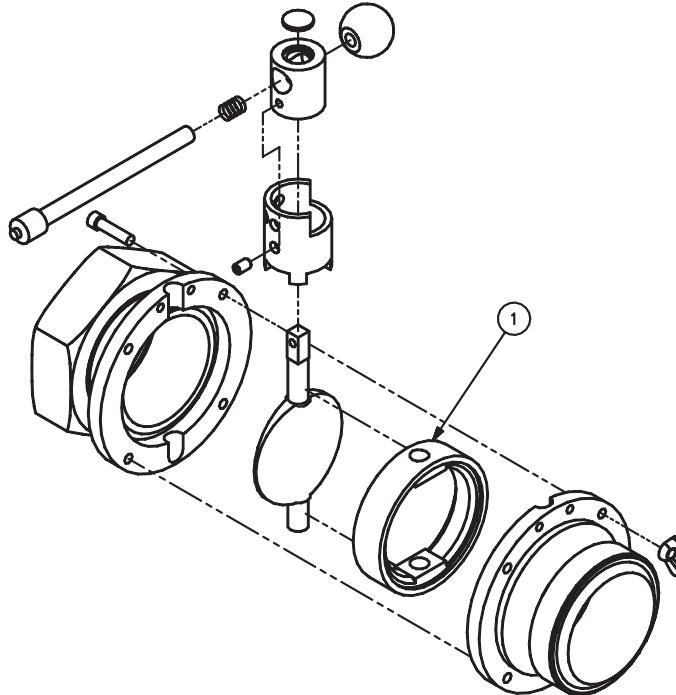
Item	Part No.	⊗=Obsolete n/s=Not Shown	Description	Quantity Required (A/R = As Required)									
1A,B	4013549	1,2,3,4	⊗ Valve, Outlet, 2 x 2 In	549A	549B								
2A,B	4013623	1,2,3,4	⊗ Valve, Outlet, 2 x 1.5 In		623A	623B							
—	4013828	2,3	⊗ Valve, Outlet, 1.5 x 1.5 In				3828						
3B	4014732	3,4	⊗ Valve, Outlet, 2 x 1.5 In					4732					
1C	4015692	3,5	Valve, Outlet, 2 x 2 In						5692				
2C	4015693	3,5	⊗ Valve, Outlet, 2 x 1.5 In						5693				
3C	4015691	3,6	⊗ Valve, Outlet, 2 x 1.5 In							5691			
4C	4015872	3,6	Valve, Outlet, 2 x 2 In, NY							5872			
5C	4019604	3	Valve, Outlet, 3 x 3 In								9604		
1	4017845	7,8	Nut, #13H, SS, 2.0 In	1	1	-	-	-	1	1	-	1	2 or 1
	8507925	7	Nut, #13H, SS, 1.5 In	-	-	1	1	1	1	-	1	1	-
	4012738	7,8	Nut, #13H, Nylon, 1.5 In	-	-	-	-	-	-	or 1	-	-	& 1
2	4009069	7	Cap, End, SS, 2 In	1	1	-	-	-	-	1	-	-	1
	4009073	7	⊗ Cap, End, SS, 1.5 In	-	-	1	1	1	1	-	1	1	-
3	8507952	7	⊗ Gasket, Neoprene, 2 In	1	1	-	-	-	-	1	-	-	1
	4079091	⊗	Gasket, Neoprene, 1.5 In	-	-	1	1	1	1	-	1	1	-
4	4013395	⊗	Nut, Hex, Union, SS, 2 In, R/LH	-	1	-	1	-	1	1	1	1	1
5	4013977		O-ring, 0.364 x .070, NPNR	1	1	1	1	-	1	-	-	-	-
6	4019800		Kit, O-ring, Outlet Valve	-	-	-	-	-	1	1	1	1	-
7	4013624		Stem, Outlet-Valve, 6-17/32 Lg	1	-	1	-	-	-	-	-	-	-
8	4013978		Stem, Outlet-Valve, 7.12 Lg, w/O-ring	-	1	-	1	-	1	-	-	-	-
9	4013831	⊗	Stem, Outlet-Valve, 5-7/8 Lg	-	-	-	-	1	-	-	-	-	-
10	4015688		Stem, Outlet-Valve, 7-1/8 Lg	-	-	-	-	-	1	1	1	1	-
11	4013626	⊗	Handle, Outlet-Valve	1	-	1	-	1	-	-	-	-	-
	4015690		Handle, Outlet-Valve (Includes item 21)	-	1	-	1	-	1	1	1	1	-
12	4013627		Hairpin, Outlet-Valve	1	-	1	-	1	-	-	-	-	1
13	4020494		O-ring, 0.750 x .130, NPNR	-	-	-	-	-	-	-	-	-	1
14	4020493		Stem, Outlet-Valve, 9-5/16 Lg	-	-	-	-	-	-	-	-	-	1
15	4020498		Handle, Outlet-Valve, 3 x 3	-	-	-	-	-	-	-	-	-	1
16	4019605		Nut, #13H, SS, 3.0 In	-	-	-	-	-	-	-	-	-	1
17	4019498		Gasket, Neoprene, 3 In	-	-	-	-	-	-	-	-	-	2
18	4019409		Reducer, ECC, SS, 3 x 2	-	-	-	-	-	-	-	-	-	1
19	4016590	n/s	Hanger, Wash Line	-	-	-	-	-	-	-	-	-	1
20	4019785	n/s	Wrench, Hex, 4.25	-	-	-	-	-	-	-	-	-	1
21	8500895	9	Pin, Handle, Outlet Valve	-	1	-	1	-	1	1	1	1	-
22	4024500		Plug, Wash Line, 2" w/Chain	1	1	-	-	-	1	-	-	1	-
23	4040011		Seal, Outlet Valve, Stem, 3"	-	-	-	-	-	-	-	-	-	1
24	4040034		Bonnet, Lower, Valve, Outlet, 3X3	-	-	-	-	-	-	-	-	-	1
25	4040035		Bonnet, Upper, Valve, Outlet, 3X3	-	-	-	-	-	-	-	-	-	1

Note

- Style A and B are similar but made by different suppliers and require different repair parts
- Style A and Valves 4013828 and 4019604 identified by hairpin and captive nut.
- Style B and all other valves except 4013828 and 4019604 and Style A identified by keyhole slotted handle.
- Identifying features for Items No. 1B, 2B, and 3B: O-ring is seated in groove on stem.
- Identifying features for Items No. 1C and 2C: O-ring is seated inside body stem hole.
- Identifying features for Items No. 3C and 4C: O-ring is seated inside stem guide.
- Not supplied with valves
- When replacing Nut (item 1) on 4015692, use either 4017845 or 4012738. When replacing Nut (item 1) on 4015872, use either two of 4017845 or one of that part and one of 4012738.
- Pin needs to be welded in place to handle, 4015690.

Butterfly Drain Valve Kit

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EFFECTIVE: 2/22/18	



ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)		
	4024170	Kit, Butterfly Drain Valve, 3"	4170		
	4041517 ¹	Kit, Butterfly Valve, 3", ALT		1517	
	4024308	Kit, Butterfly Drain Valve, 2"			4308
	4024046	Seal, Valve, Butterfly 3"	1	-	-
1	8510343 ²	Seat, 3.0", Butterfly Valve, Sil	-	1	-
	4024047	Seal, Valve, Butterfly 2"	-	-	1
	8510341 ²	Seat, 2.0", Butterfly Valve, Sil	-	-	1
2	4009069	Cap, End, SS, 2"	1	-	1
3	4015092	Hose, vinyl 2.00 x .250W	a/r	-	a/r
4	4016590	Hanger, washline	1	-	1
5	4017845	Nut, #13H, SS, 2.0"	1	-	1
6	4019409	Reducer, ECC, SS, 3x 2	1	-	-
7	4019498	Gasket, Neoprene, 3"	2	-	-
8	4019605	Nut, #13H, SS, 3.0"	1	-	-
9	4019785	Wrench, Hex, 4.25	1	-	-
10	4024169	Tube, Washline, Extension	1	-	1
11	4024500	Plug Assy, Washline 2", W/ chain	1	-	1
12	4014729	Gasket, 2", Bevel Seat, Teflon	1	-	1
13	4023919	* Valve, Butterfly Outlet, 3"	1	-	-
	4041518 ¹	* Valve, Butterfly Outlet, 3", ALT	-	1	-
14	4023918	* Valve, Butterfly Outlet, 2"	-	-	1

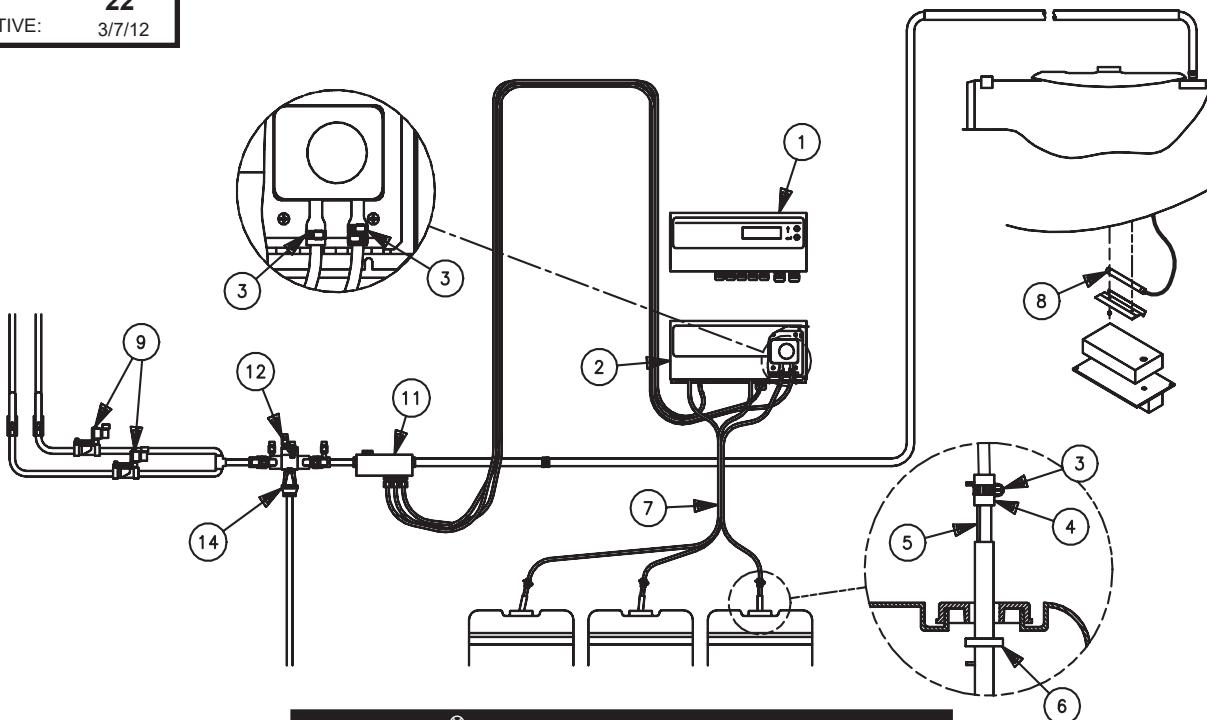
Note:

* Includes item 1.

1. Alternate supplier, (SPI engraved on each valve half), white colored knob on valve handle.

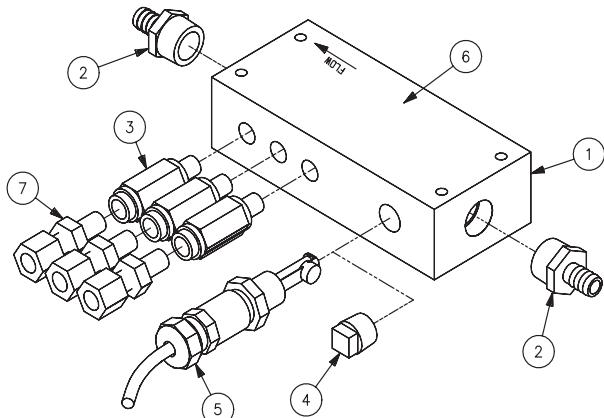
2. For alternate valve only.

Glacier Guard Washer, W/O Valve



ITEM	PART NO.	DESCRIPTION	QTY. REQ. a/r=AS REQ.
		⊗=OBsolete n/s=NOT SHOWN	
4023262		Washer, Glacier Guard, W/O Valve	-
1	4023251	Control Assy, Electrical (Parts on page E-23)	1
2	4023253	Control Assy, Pump (Parts on page C-12)	1
3	8516844	Clamp, Hose, #6, .31-.88	12
4	8502562	Retainer, Hose, Split	3
5	8502563	Retainer, Hose, Wire	3
6	8502565	Washer, Polye, .66 x 1.25 x .25	3
7	8502564	Washer, Polye, 1.10 x 1.75 x .25	3
8	4023261	Hose, Poly, Nat, .25 ID x 100 Ft	a/r
8516999		Sensor, Temp, Glacier Guard	1
8515767	⊗	Valve, Water, .50, 220 / 240 Vac	2
8515768	⊗	Valve, Water, .75, 220 / 240 Vac	2
8515769	⊗	Valve, Water, 1.00, 220 / 240 Vac (See Parts on page C-17)	2
10	8516997	n/s Label, Guardian II, Wires & Hoses	1
11	4023264	Manifold Assy, Chemical Inj (See Parts below)	11
12	4023352	⊗ Valve, Backflow Preventer, 3/4"	1
4023353	⊗	Valve, Backflow Preventer, 1/2"	1
13	4023355	⊗ Kit, Repair, B/F Preventer, 1/2"	a/r
4023356	⊗	Kit, Repair, B/F Preventer, 3/4"	a/r
14	4023354	⊗ Fitting, Air Gap	1
15	-----	Literature 1E-179 (Installation instructions)	a/r

Manifold Assembly, Chemical Injection



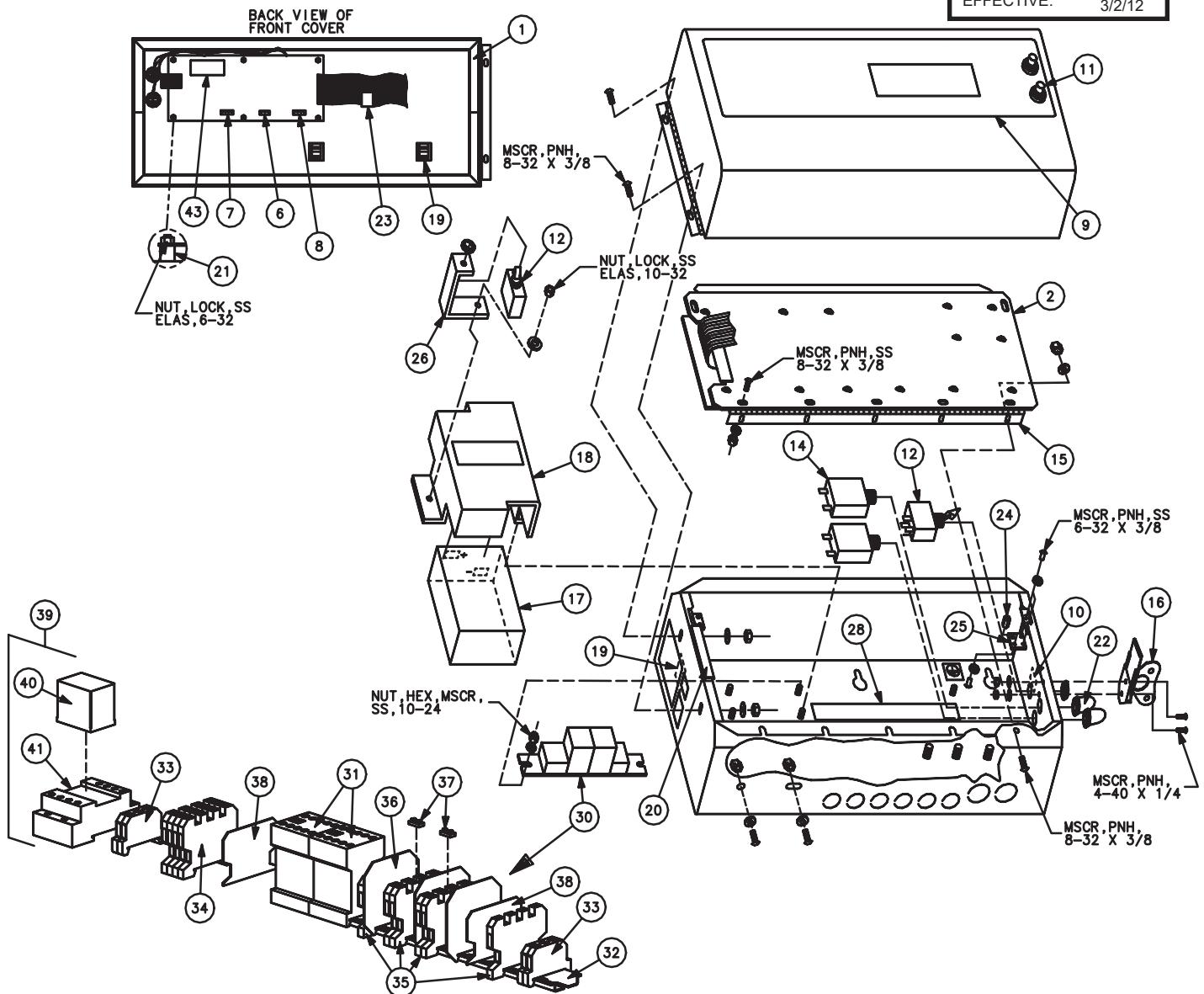
ITEM	PART NO.	DESCRIPTION	QTY. REQ. a/r=AS REQ.
		⊗=OBsolete n/s=NOT SHOWN	
4023264		Manifold Assy, Chemical Inj	264
8501938		Manifold Assy, Chemical Inj	938
1	8501851	Manifold, Chemical Injection	1 1
2	4022785	Adapter, 1/2 Hose x 3/4 NPT	2 2
3	8503970 ¹	⊗ Valve, Check	3 3
3	8509547	Valve, Check	3 3
4	8518937	Plug, Int, Plstc, .50	1 -
5	8501852	Switch, Water Flow, Chemical Inj	- 1
6	8501897	Label, Manifold, Chemical Inj	1 1
7	8501941	Adapter, 3/8 Hose x 1/4 NPT	3 3

NOTE

1. Item 3: 8503970 replaced by 8509547 and 8501941

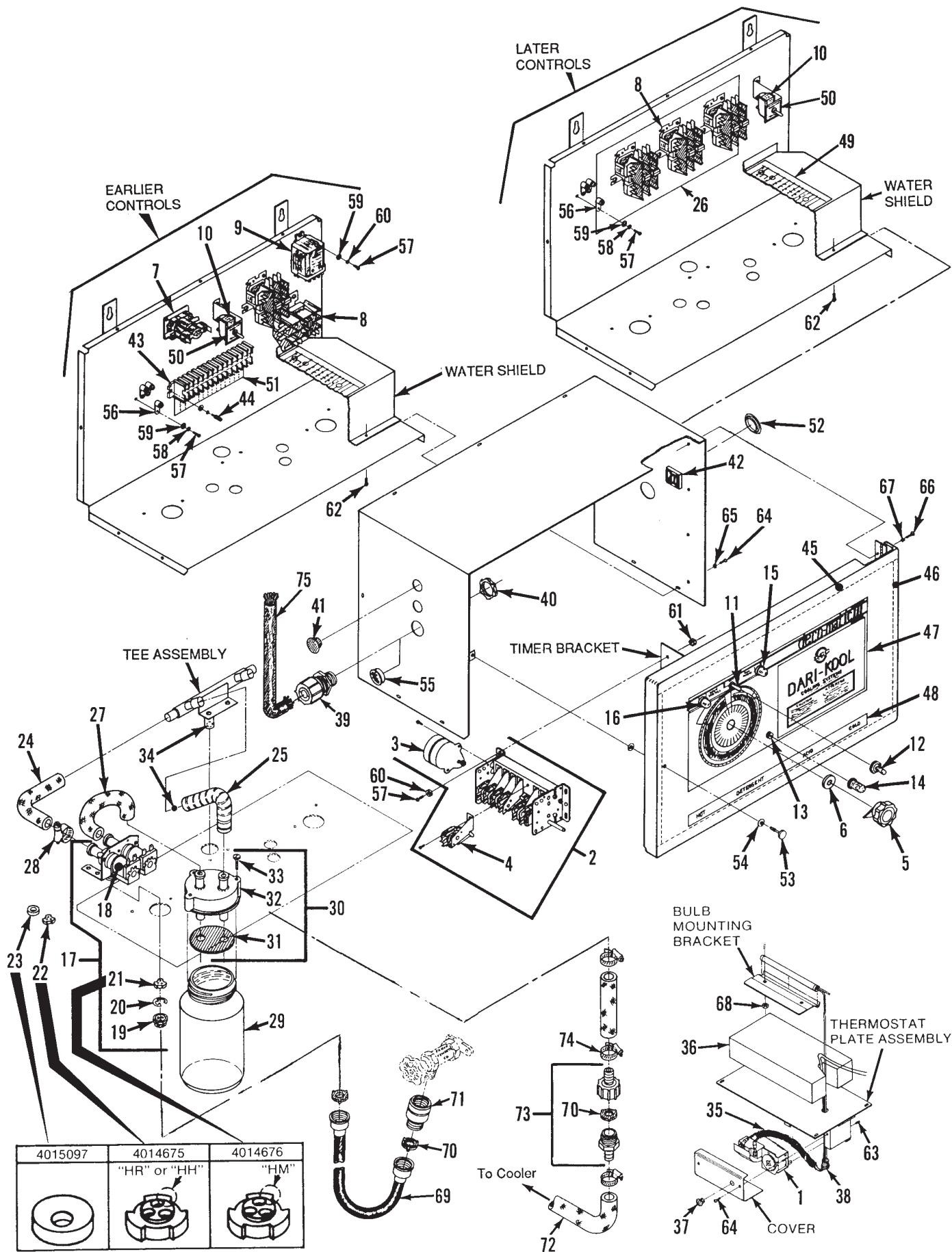
Glacier Guard Electrical Assembly

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EFFECTIVE: 3/2/12



ITEM	PART NO.	DESCRIPTION	QTY. REQ. n/s=NOT SHOWN
4023251		Control Assy, Electrical	-
1	8516989	Gasket, Wrapper	1
2	4023250	Door Assy	1
3	1931818	n/s Fuse, 1.00 A, 250V, Slow 1.25 x .25	1
4	1932205	⊗ Fuse Holder, 5 x 20 mm, Plstc (For use with metric size fuses)	6
5	1931833	n/s Fuse, 6.25A, 250V, Slow, 1.25 x .25	6
6	1917631	Connector, Term Strip, 3 pos	1
7	1917632	Connector, Term Strip, 4 pos	1
8	1917633	Connector, Term Strip, 5 pos	1
9	4023257	Label, Door, Elect Control	1
10	8505777	Label, On-Off, International	1
11	1980311	Switch, PB,SPST,Mom	2
12	8516824	Switch, Toggle, DPST, On-Off, VDE	2
13	4023258	n/s Wire Harness, Glacier Guard	1
14	8516828	Breaker, Ckt, 15A, VDE	2
15	8516978	Hinge, w/Holes, 16.00" Lg	1
16	8515269	Fastener, Link-Lock	11
17	1912504	Battery, 6V, Lead-Acid	1
18	3554934	Bracket, Battery, 6V	1
19	1914003	Clamp, Cable, 1/2 Dia, Adh	3
20	4016780	Trim, Seal, Flexible	a/r
21	1979607	Spacer, Round, .6 x .3, NYL	6
22	4015960	Seal, Switch, Ckt-Breaker	2
23	4015321	Clamp, Cable, Self-Stick	1
24	1979708	Spacer, Thd, Hex, 6-32 x .375 AL	2
25	8516151	Plate, Mt, PWB	2
26	4023268	Bracket, Switch, Cool-Manual	1
27	4022786	⊗ n/s Label, Glacier Guard Wiring	1
28	4023267	Label, Wiring, Din Rail	1
29	8516892	n/s Filter, EMI, Clamp-On, 5"	1
30	4023263	Term, Blk Assy, Glacier Guard (Includes items 31 thru 42)	1
31	4023266	Contactor, 3Ph, 16A	2
32	4023900	⊗ Rail, Din, 10.50 Long	1
33	4023904	⊗ Terminal, Ground, Din Rail	4
34	4023905	⊗ Terminal, 2-Pole, 2-Tier, Din	4
35	4023906	⊗ Terminal, 1-Pole, 2-Tier, Din	6
36	4023907	⊗ Barrier, Din Rail	3
37	4023908	⊗ Link, Rail, 2 Terminal	2
38	4023909	⊗ End Plate, Terminal, 2-Tier	2
39	4023910	Relay Assy, Auto/Manual (Includes items 40 thru 42)	1
40	4023901	Relay, 4PDT, 240 Vac, 9A	1
41	4023902	⊗ Socket, Relay, Din Rail	1
42	4023903	⊗ n/s Clip, Relay	1
	8602553	⊗ PROM,RCD,IN CAR,GLCRGRD,LANG 1 (English, French, German, Dutch, Spanish, Italian)	1
43	8582789	PROM,NEW,NO CAR,GLCRGRD,LANG 1 or 1	or 1
	8609274	⊗ PROM,RCD,IN CAR,GLCRGRD,LANG 2 (English, Slovakian, German, Dutch, Spanish, Italian)	or 1
	8582790	PROM,NEW,NO CAR,GLCRGRD,LANG 2 or 1	or 1

Deco-Matic III™ Controller



Deco-Matic III™ Controller

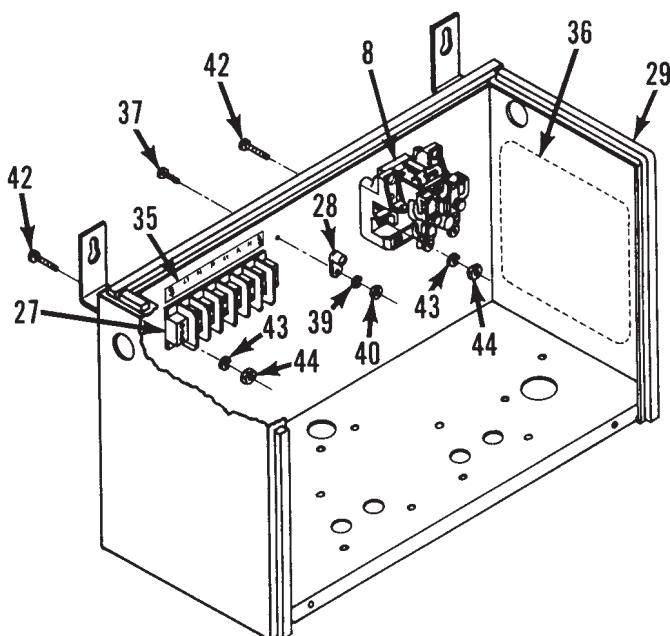
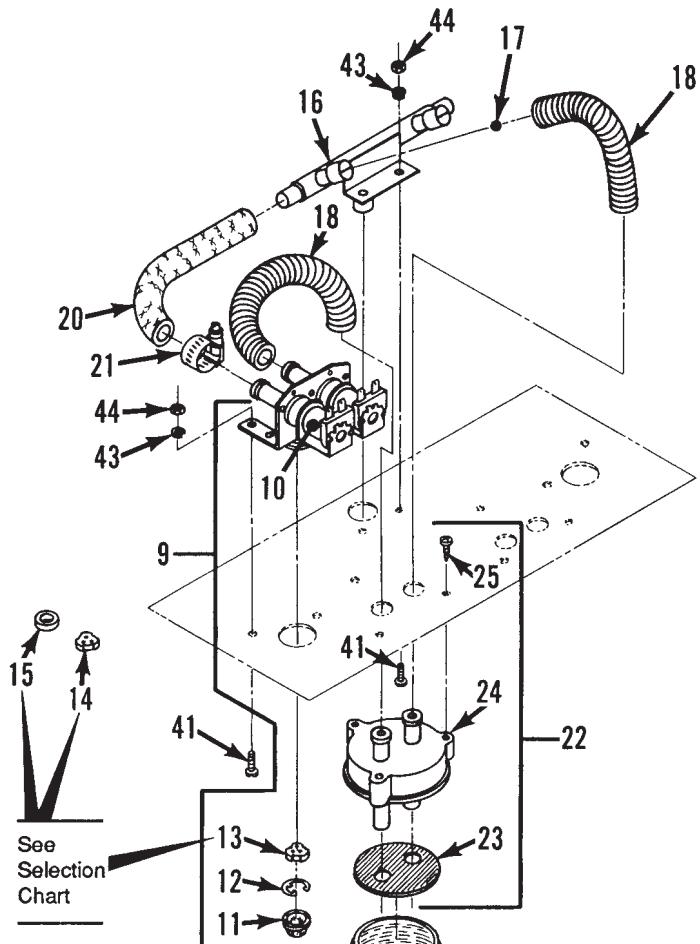
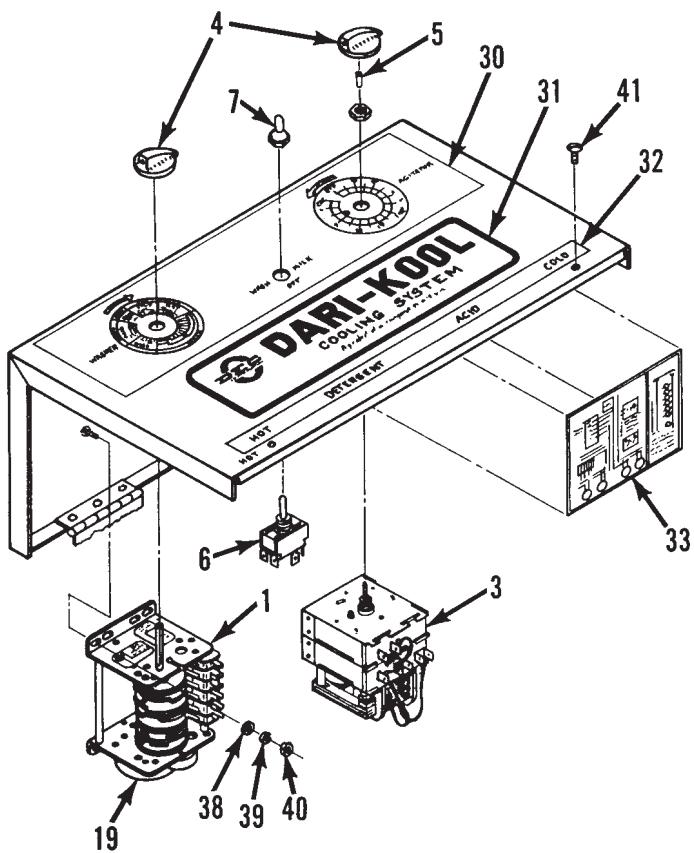
SECTION E	PAGE 25
EFFECTIVE: 7/9/19	

Item	Part No.	Q=OBSCRETE n/s=NOT SHOWN	Description	Quantity Required				
	4016152		Control Assy, Deco-Matic III	-				
1	4017278		Thermostat, Refrig, 35-45 Deg	1	39	4015417	Conn, Str-Rlf, .63-.75, 3/4NPT	1
2	4015908		Timer, 7-Cam, 230V (Includes items 3 & 4)	1	40	3551278	Nut, Lock, Conduit, 3/4NPT	1
3	4015909		Motor, Cam Timer	1	41	4012594	Plug, Int, Plstc, 0.88	2
4	4015911		Switch, 7-Cam Timer	7	42	1979400	Retainer, Misc, SM Mount, Nylon	5
5	4016476		Knob, Plastic, Black, w/Pointer	1	43	4015876	⊗ Block, Terminal, 14-Position	1
6	4016501		Gasket, Timer Shaft	1	44	4015934	⊗ Standoff, Hex, Brs, 6-32 x .50	2
7	4015127	⊗	Relay, Time Delay, SPST	1	45	4015963	Gasket, Rbr/Crk, .12x.75x20.34	2
8	4015912		Relay, DPST, 20 Amp (Note: Later controls use 3 relays)	3	46	4015964	Gasket, Rbr/Crk, .12x.38x11.12	2
9	4015913		Relay, DPDT, 240V, 10 Amp	1	47	4015965	Label, Cover, Deco-Matic III	1
10	3551791		Switch, Toggle, SPST	1	48	4015467	Label, Hot-Deter-Acid-Cold	1
11	4015914		Switch, Toggle, 3PDT	1	49	4019942	Label, Wiring Diag, Deco-Matic (For use with later controls only)	1
12	3551793		Seal, Toggle-Switch	1	50	4015953	Label, Thermostat, Bypass	1
13	4015915		Breaker, Ckt, .50A, 250V (Includes reset button)	1	51	4015955	⊗ Label, Terminal Block	1
14	4015960		Seal, Switch, Ckt-Breaker	1	52	4014666	Plug, Int, Plstc, 1.25	1
15	4015923		Light, Pilot, Green, 250V	1	53	8507047	⊗ Screw, Knurled, Retainer	1
	4017226	⊗	Light, Pilot, Blue, 250V	1		1027301	TFSCR, PNH, SS, 1/4-14 X 1 AB (Replaces 8507047)	1
16	4015924		Light, Pilot, Amber, 250V	1	54	4019760	Washer, Sealing, SS, No.14	1
17	4015918		Valve, Solenoid, 2-Out, 230V (Includes items 18 thru 21)	2	55	8560272	Plug, Int, Plstc, 1.12	1
18	4014959		Coil, Solenoid-Valve, 230V	4	56	3551897	Lug, Ground, 14 to 8 AWG	3
18a	8516959	n/s	Diaphragm, N-43 or S-30	4	57	1096163	MSCR, PNH, SS, 6-32 x 3/8	21
18b	8504074	n/s	Body, Valve, Solenoid	4	58	1235382	Washer, Lock, Intl-T, SS, #6	3
19	4015376	⊗	Screen, Solenoid-Valve	2	59	1208382	Washer, Plain, SS, #6	17
20	4015347		Ring, Retaining	2	60	1209382	Washer, Lock, Hlcl Spr, #6	17
21	4014676		Orifice, Flow, 1.6 GPM	2	61	1204377	Nut, Hex, MSCR, SS, 6-32	3
22	4014675		Orifice, Flow, 2.7 GPM (2 supplied with 4016152)	a/r	62	1024163	TCSCR, PNH, SS, 6-32 x 3/8 F	2
23	4015097		Orifice, Flow, 4 GPM (2 supplied with 1.5H Pump Pkg 4016592 or 4016593)	a/r	63	1096177	MSCR, PNH, SS, 8-32 x 1/4	2
24	4015446		Hose, Frmd, PVC, Reinf, .50 ID, J-SM	2	64	1096179	MSCR, PNH, SS, 8-32 x 3/8	9
25	4015864		Hose, PVC, Reinf, .50 x 4.88	2	65	1209383	Washer, Lock, Hlcl Spr, SS, #8	9
26	4019941		Label, Wiring Diag	1	66	1096200	MSCR, PNH, SS, 10-24 x 1/2	10
27	4015916	⊗	Hose, Frmd, PVC, Reinf, .50 ID,G (replaced with 4015864)	2	67	1209384	Washer, Lock, Hlcl Spr, SS, #10	10
	4015864		Hose, PVC, Reinf., .50 x 4.88	1	68	1204379	Nut, Hex, MSCR, SS, 10-24	6
28	4012220		Clamp, Hose, SS, #8, .50-.91	12	69	4011898	Hose Assy, Water Fill, 5 Ft	2
29	4018856		Jar, Plastic, 1 Quart	2	70	4015418	Washer, Hose	5
30	4015112		Collar Assy, Jar (Includes items 31 thru 33)	2	71	4014587	⊗ Coupling, Anti-Backflow	2
31	8518772		Gasket, Jar	2	72	4013932	Hose, Vinyl, Reinf, .50 x .125W (Part No. represents 1 foot)	a/r
32	4014944		Collar, Jar	2	73	4015071	Coupling, Hose, Nylon, .5 In (Includes 1 of item 70)	1
33	1023202		TCSCR, PNH, SS, 10-24 x 3/4 T	6	74	4012220	Clamp, Hose, SS, #8, .50-.91	3
34	4014019		Ball, Check, Rbr, .38 Dia	2	75	4015261	Cable, 8-Cond, Control (Part No. represents 1 foot)	a/r
35	4016382		Cord Assy, 2-Cond, 18 Gax9.5 Ft	1	76	1979001	Tie, Cable, 5.87 x .09	6
36	4015994		Block, Insulation	1	77	4015966	⊗ Wire Harness, Deco-Matic	1
37	3551818	⊗	Plug, Int, Plstc, 0.38	1		4017222	Wire Harness, Deco-Matic (Later controls use 4017222)	1
	3551755		Plug, Int, Plstc, 0.88 (Later controls use 3551755)	1	78	-----	Literature 1E-94 (Deco-Matic III Installation and Service Instructions)	ref
38	4012569		Bushing, Snap, Nylon, SB-562-6	1	79	-----	Literature 1E-95 (Deco-Matic III Operation Instructions)	ref
					80	-----	Literature 1P-104 (User Instruction Card)	ref

Note

1. Use plugs (items 41, 52, and 55) when holes are not used.

Deco-Matic II Control Cabinet



Selection Chart for Flow Orifices

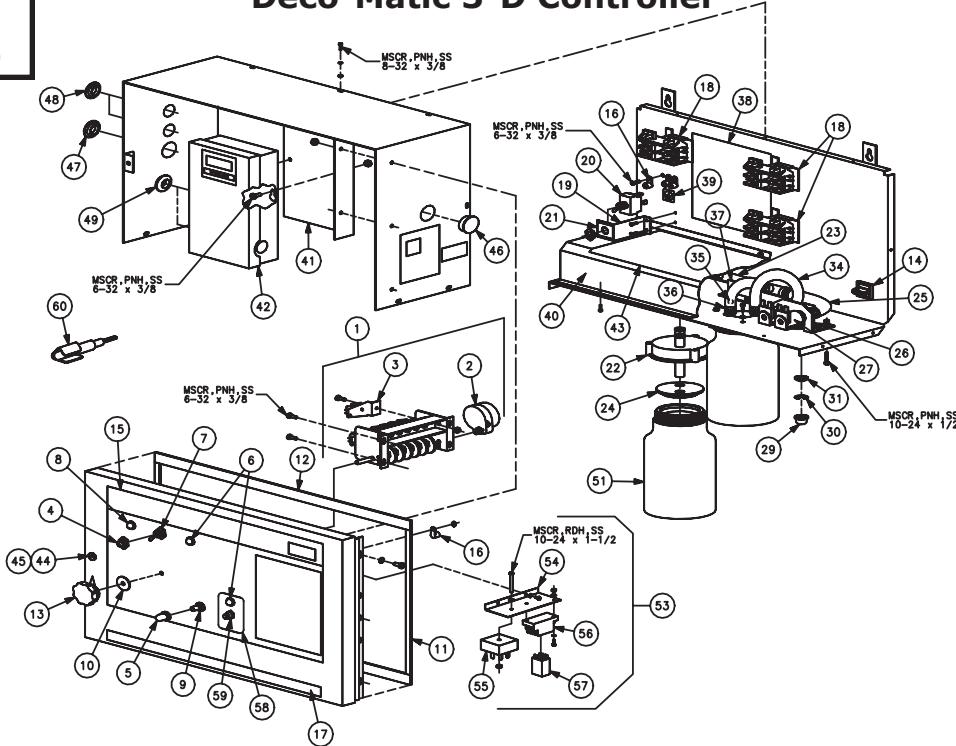
FLOW ORIFICES	COOLER SIZE (GALLONS) 450-2000	3000-6000
4014676 1.6 GPM	water supply pressure OK	
4014675 2.7 GPM	water supply pressure LOW	water supply pressure OK
4015097 4 GPM		water supply pressure LOW

Deco-Matic II Control Cabinet

SECTION E	PAGE 27
EFFECTIVE: 3/17/00	

Item	Part No.	X=OBsolete n/s=NOT SHOWN	Description	Quantity Required
	4014526	⊗	Control Assy, Deco-Matic II	-
1	4013840	⊗	Timer, 6-Cam, 115/60	1
2	4013399	⊗ n/s	Timer Assy, w/Knob & Adapter	1
	4024174		Kit, Timer (<i>Replaces 4013399 & Items 3 thru 5</i>)	1
3	4013450	⊗	Timer, 2-Hour, 115V	1
4	4013397	⊗	Knob, Timer	2
5	4013398	⊗	Adapter, Shaft, Knob	1
6	8519140		Switch, Toggle, DPDT	1
7	3551793		Seal, Toggle-Switch	1
8	8560169		Relay, DPST, 110V, 25A	1
9	4012916		Valve, Solenoid, w/Coils (<i>Includes items 10 thru 13</i>)	2
10	4012727		Coil Assy, Solenoid-Valve, 115V	4
10a	8516959	n/s	Diaphragm, N-43 or S-30	4
10b	8504074	n/s	Body, Valve, Solenoid	2
11	4015376	⊗	Screen, Solenoid-Valve	2
12	4015347		Ring, Retaining	2
13	4014676		Orifice, Flow, 1.6 GPM	2
14	4014675		Orifice, Flow, 2.7 GPM	or 2
15	4015097		Orifice, Flow, 4 GPM	or 2
16	4014518		Tee Assy, SS, w/Support Clip	1
17	4014019		Ball, Check, Rbr, .38 Dia	2
18	4014525		Hose, PVC, Reinf, .50 x .156W	a/r
19	4019497	⊗	Motor, Cam Timer, 115V	1
20	4013932		Hose, Vinyl, Reinf, .50 x .125	a/r
21	4012220		Clamp, Hose, SS, #8, .50-.91	12
22	4015112		Collar Assy, Jar (<i>Includes items 23 thru 25</i>)	2
23	8518772		Gasket, Jar	2
24	4014944		Collar, Jar	2
25	1023202		TCSCR, PNH, SS, 10-24 x 3/4 T	6
26	4018856		Jar, Plastic, 1 Quart	2
27	4014171	⊗	Block, Terminal 6-Position	1
28	3551897		Lug, Ground, 14 to 8 AWG	2
29	8513864	⊗	Tape, Foam, Pressure-Sensitive	a/r
30	4016400	⊗	Label, Washer-&Agitator	1
31	4013600		Label, Dari-Kool, 3-1/4 x 7	1
32	4015467		Label, Hot-Deterg-Acid-Cold	1
33	4014682	⊗	Label, Wiring Diag, Washer	1
34	1979001		Tie, Cable, 5.87 x .09	6
35	4014147	⊗	Label, Terminal Block	1
36	4012939	⊗	Label, Remove-And-Hand-Wash	1
37	1096181		MSCR, PNH, SS, 8-32 x 1/2	2
38	1208383		Washer, Plain, SS, #8	3
39	1209383		Washer, Lock, Hlcl Spr, SS, #8	5
40	1204378		Nut, Hex, Mscr, SS, 8-32	5
41	1096200		MSCR, PNH, SS, 10-24 x 1/2	8
42	1096202		MSCR, PNH, SS, 10-24 x 3/4	4
43	1209384		Washer, Lock, Hlcl Spr, SS, #10	10
44	1204379		Nut, Hex, Mscr, SS, 10-24	10

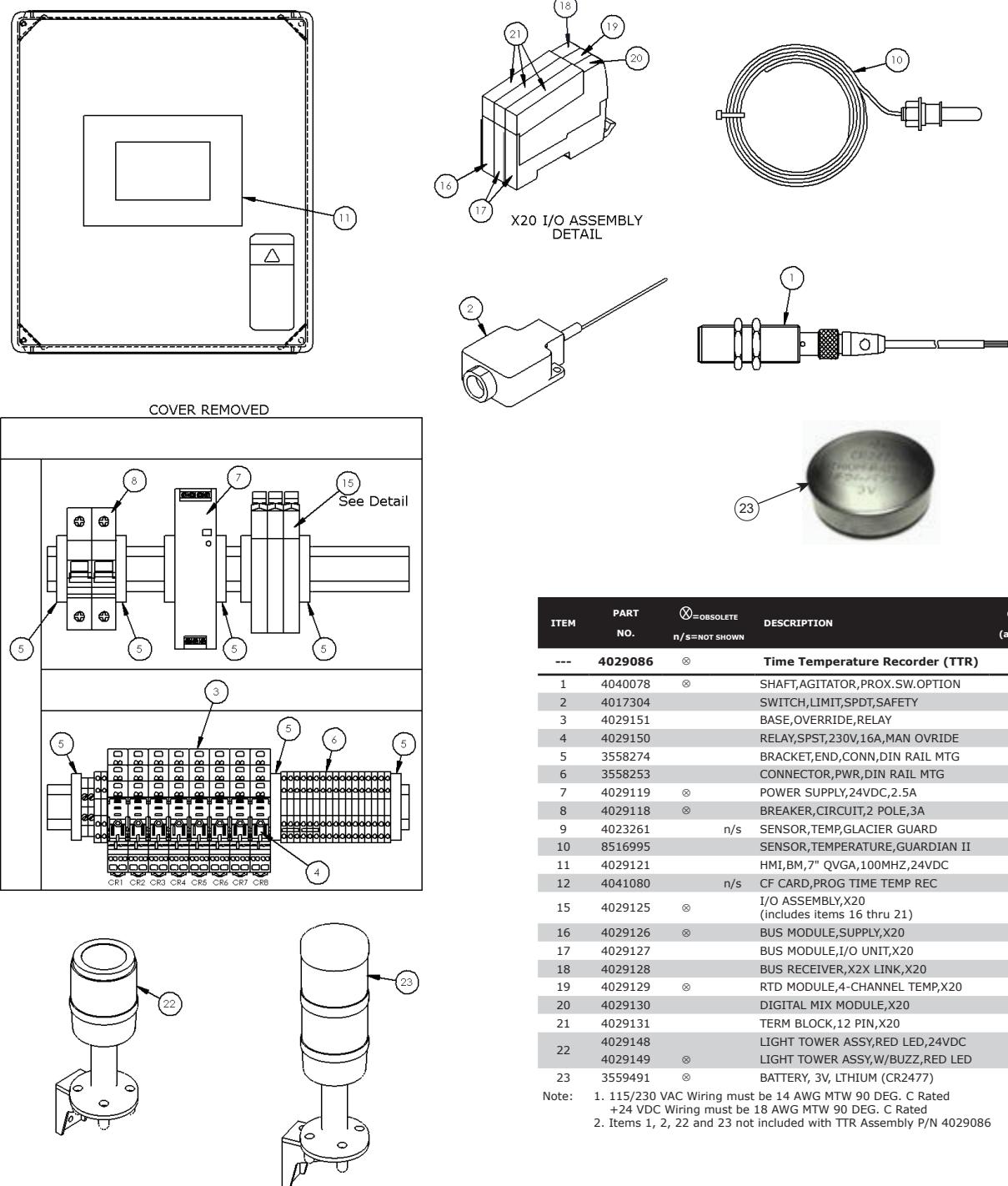
Deco-Matic 3-D Controller



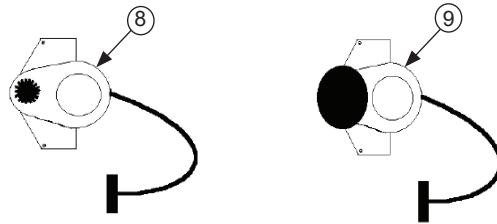
Item	Part No.	Obsolete n/s=NOT SHOWN	Description	Quantity Required
4021935	⊗		Control Assy, Deco-Matic 3D	-
1	4015908		Timer, 7 Cam, 230V (Includes items 2 & 3)	1
2	4015909		Motor, Cam Timer	1
3	4015911		Switch, 7-Cam Timer	7
4	4021975	⊗	Seal, Toggle Switch	1
5	4015960		Seal, Switch, Ckt-Breaker	1
6	4015923		Light, Pilot, Green, 250V	1
7	4015914		Switch, Toggle, 3PDT	1
8	4015924		Light, Pilot, Amber, 250V	1
9	8516825		Breaker, Ckt, 5A, VDE	1
10	4016501		Gasket, Timer Shaft	1
11	4015964		Gasket, Rbr/Crk, .12 x .37 x 11.12	2
12	4015963		Gasket, Rbr/Crk, .12 x .75 x 20.34	2
13	4016476		Knob, Plstc, Black, w/Pointer	1
14	1979400		Retainer, Misc, Sm Mount, Nylon	4
15	4021926	⊗	Label, Cover, Deco-Matic 3D	1
16	3551897		Lug, Ground, 14 to 8 AWG	4
17	4022431	⊗	Label, Hot-Det-Acid-Cold	1
18	4015912		Relay, DPST, 20 Amp	3
19	4015921		Bracket, Switch	1
20	8516824		Switch, Toggle, DPST, On-Off, VDE	1
21	4015953		Label, Thermostat, Bypass	1
22	4014944		Collar, Jar	2
23	4014518		Tee Assy, SS, w/Support Clip	1
24	8518772		Gasket, Jar	2
25	4015446		Hose, Frmd, PVC, Reinf,.50ID, J-Sm	2
26	4015918		Valve, Solenoid, 2-Out, 230V (Includes items 27 thru 31)	2
27	4014959		Coil, Solenoid-Valve, 230V	4
27a	8504074	n/s	Body, Valve, Solenoid	2
28	8516959	n/s	Diaphragm, N-43 or S-30	4
29	4015376	⊗	Screen, Solenoid-Valve	2
30	4015347		Ring, Retaining	2
31	4014676	n/s	Orifice, Flow, 1.6 GPM HM	2
32	4014675	n/s	Orifice, Flow, 2.7 GPM HB or HH (2 supplied with 4016152)	2
33	4015097		Orifice, Flow, 4 GPM (2 supplied with 1.5Hp Pump Pkg 4016592 or 4016593)	a/r
34	4015916	⊗	Hose, Frmd, PVC, Reinf,.50ID, G	2
35	4014019		Ball, Check, Rbr, .38 Dia	2
36	4012220		Clamp, Hose, SS, #8, .50-.91	12
37	4014525		Hose, PVC, Reinf, Wire, .50 x .156W	a/r
38	4021931	⊗	Label, Wiring, Field	1
39	8505776		Label, Ground, International	1
40	4022057	⊗	Shield, Splash	1
41	4021927	⊗	Bracket, Control, Temp	1
42	4021773	⊗	Controller, Temp, 1 Prb/4 Rly	1
	4040031		Kit, Control, Temp, 1 PRB, 4 Relay	1
43	4021933	⊗	Label, Wiring Diag	1
44	3551822		Screw, Quick-Open, SS, 12 x 3/4	1
45	3551777		Retainer, Quick-Open, No.12	1
46	4014666		Plug, Int, Plstc, 1.25	1
47	8560272		Plug, Int, Plstc, 1.12	1
48	3551755		Plug, Int, Plstc, 0.88	2
49	4079106		Grommet, .65 ID x .88 Mtg x 1.18 OD	2
50	4014587	⊗ n/s	Coupling, Anti-Backflow	2
51	4018856		Jar, Plastic, 1 Quart	2
52	-----		Literature 1E-178 (Installation instructions)	a/r
53	4022931	⊗	Manual Agitate Assy, D-M 3D (Includes 1 of item 6 & 54 thru 59)	a/r
54	4022926	⊗	Bracket, Manual Agitate	1
55	4022925	⊗	Timer, 1-30 Min	1
56	8506293		Socket, Relay,Hc	1
57	8506292		Relay,4PDT,240V,5A	1
58	4022923	⊗	Label,Manual Agitate	1
59	8516827		Switch,PB,SPST,Mom	1
60	4024229	⊗	Kit, Waterproof Sensor, Honeywell	1

Time Temperature Recorder (TTR)

SECTION E PAGE 29
EFFECTIVE: 10/10/18



Temperature Chart Recorder

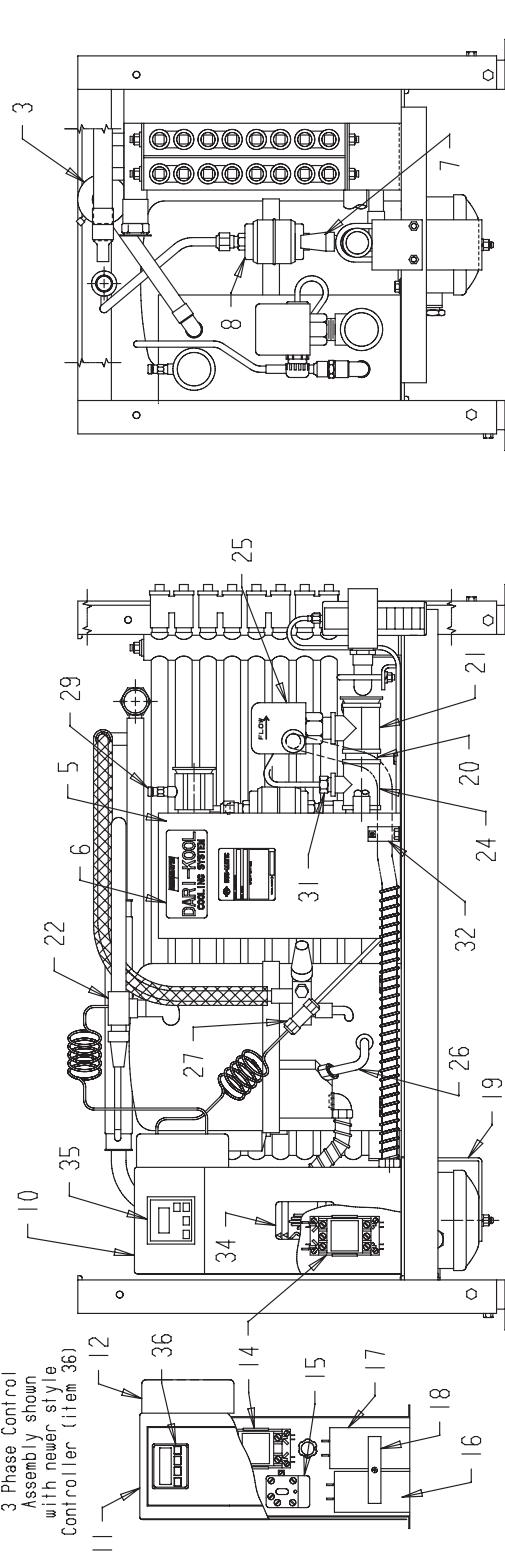
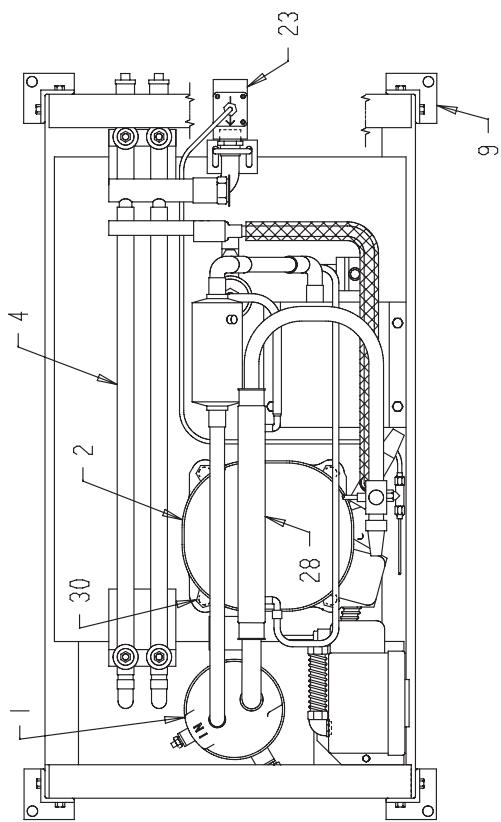


ITEM	PART NO.	<small>⊗=OBSOLETE n/s=NOT SHOWN</small>	DESCRIPTION	QTY REQUIRED (a/r=As Required)
	4024300		Thermometer, Recorder, W/AI Relay	4300
1	4024631	⊗ n/s	100 Charts, 2 Day, °F	a/r
2	4024301 ¹	n/s	100 Charts, 7 Day, °F	a/r
3	4024302	n/s	100 Charts, 7 Day, °C	a/r
4	4024303	⊗ n/s	100 Charts, 3 Day, °F	a/r
5	4024305	n/s	Cartridge, Pen, Pack of 5	a/r
6	4024306	⊗ n/s	Sensor, RTD Probe, 25 Ft	a/r
7	4024307 ¹		Sensor, RTD Probe, 50 Ft (<i>attached to unit</i>)	a/r
8	4025300		Motor, Pen, Guardian Temp Recorder	a/r
9	4025301		Motor, Chart, Guardian Temp Recorder	a/r

NOTE: Items shipped with Temperature Chart Recorder (4024300).

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Insta-Kool Compressor Assemblies



Insta-Kool Compressor Assemblies

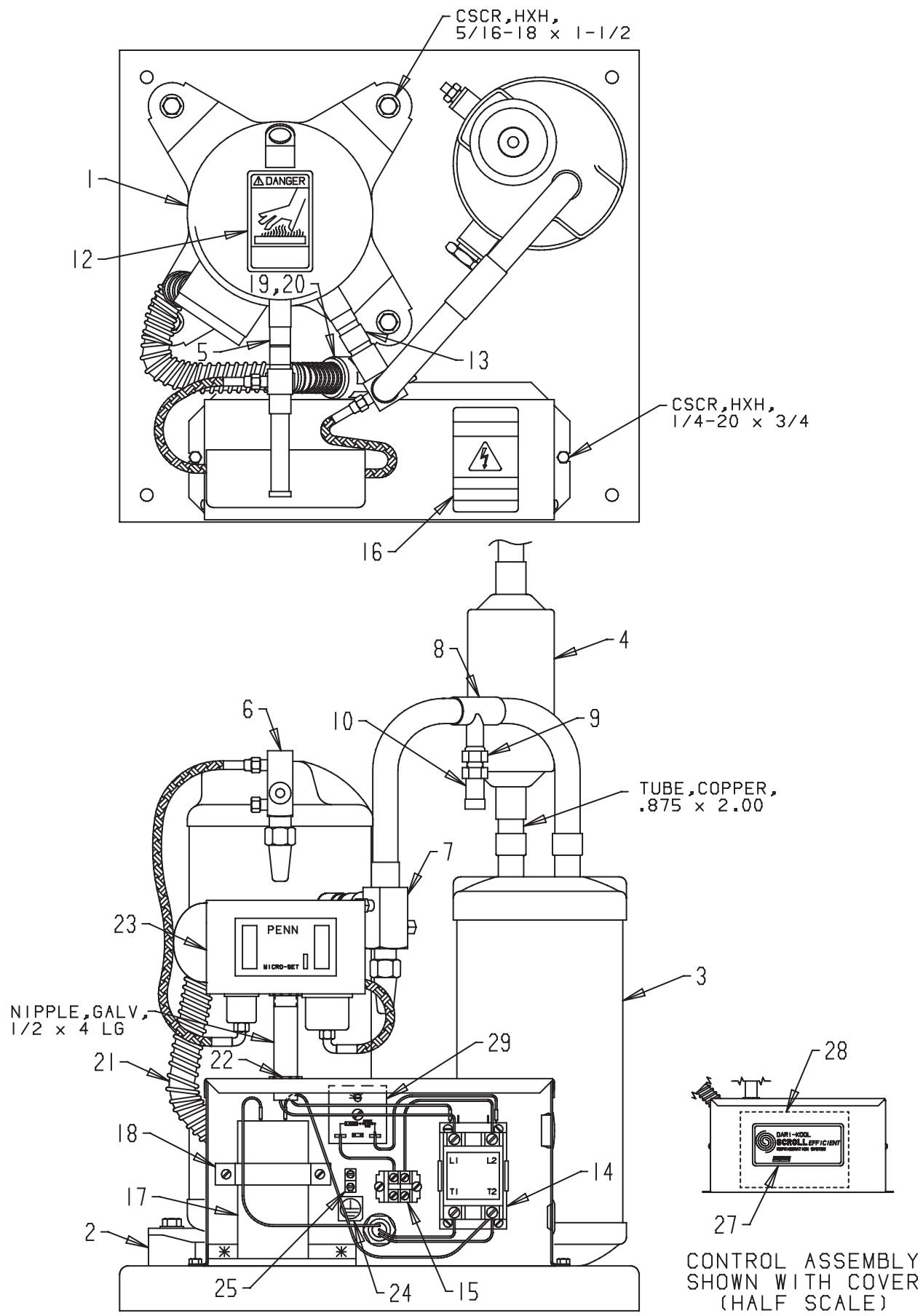
SECTION E	PAGE 33
EFFECTIVE: 3/19/19	

Item	Part No.	⊗ n/s=NOT SHOWN	Description	QTY REQUIRED (a/r=As Required)			
	4021226	⊗	Cprsr Assy, Inst-Kool, 1Ph, Wtr	1226			
	4020822	⊗	Compressor Assy, 5Hp, 3Ph, Water	0822			
	4021227	⊗	Cprsr Assy, Inst-Kool, 1Ph, Air	1227			
	4021228	⊗	Cprsr Assy, Inst-Kool, 3Ph, Air	1228			
1	4020308	⊗	Accumulator Assy, 5Hp	1	1	1	1
2	4015880		Cprsr, Tecumseh, 5Hp, 3Ph	-	1	-	1
	4015671		Cprsr, Tecumseh, 5Hp, 1Ph	1	-	1	-
3	4014797		Filter, Suction Line	1	1	1	1
4	4021941	⊗	Condenser, 8.0 Ton, Water Cooled	1	1	-	-
5	4020824	⊗	Evaporator, Assy, 5 Ton	1	1	1	1
6	4013600		Label, Dari-Kool, 3-1/4 x 7	1	1	1	1
7	4019335	⊗	Valve, Svce, OFS, .875, 2 Port	1	1	-	-
8	4014699		Filter, Drier, Liquid-Line	1	1	1	1
9	4020881		Foot Assy, Insta-Kool	4	4	4	4
10	4020926	⊗	Control Assy, Insta-Kool, 3Ph (Includes items 12 thru 14 & either item 35 or 36)	-	1	-	1
11	4021249	⊗	Control Assy, Insta-Kool, 1Ph (Includes items 12 thru 18 & either item 35 or 36)	1	-	1	-
12	4021891	⊗	Control, Pressure	1	1	1	1
13	4020669 ¹	n/s	Sensor, Elec Temp Cont	1	1	1	1
	4021841 ²	n/s	Sensor, Elec Temp Cont	1	1	1	1
	4040032		Probe, Temp, NTC, 15', for Dixell Control	-	-	1	1
14 ⁶	4012938		Contactor, DPST, 240V, 40Amp	1	-	1	-
	4015902		Contactor, 3PST, 240V, 30Amp	-	1	-	1
15	4014387		Relay, Start	1	-	1	-
16	4017343	⊗	Capacitor, Run, 55Mfd	1	-	1	-
17	4014388		Capacitor, Start, 135-155Mfd	1	-	1	-
18	4019237	⊗	Clamp, Capacitor	1	-	1	-
19	4020885	⊗	Bracket, Accumulator	1	1	1	1
20	1401706		Nipple, Close, Galv, 1-1/2	1	1	1	1
21	1407758	⊗	Tee, Rdcr, Galv, 1-1/2 x 1-1/2 x 1	1	1	1	1
22	4015962	⊗	Valve, Svce, OFS, .875, 2 Port	1	1	1	1
23	4020883		Valve, Water Regulating, 3/4	1	1	-	-
24	1407759	⊗	Tee, Rdcr, Galv, 1-1/2 x 1-1/2 x 1/2	1	1	1	1
25	4020828		Switch, Flow	1	1	1	1
26	4015891	⊗	Kit, Heater Conduit	1	1	1	1
27	4020967	⊗	Tee, Brs, 1/4Flr	1	1	-	-
28	4020969	⊗	Heat Exchanger, Line, Insta-Kool	1	1	1	1
29	4020890	⊗	Valve, Test Port, 1/4NPT	1	1	1	1
30	4014244	⊗	Mount Assy, Cprsr, Pk of 4	1	1	1	1
31	4020968	⊗	Thermowell Assy, Insta-Kool	-	-	1	-
	4021912		Thermowell, Insta-Kool, 3.25, for Honeywell	1	1	-	1
	4040026	⊗	Coupling, Temp Probe, for Dixell Control	-	-	1	1
32	4021529	⊗	Hanger, Conduit, .50" w/Bolt	1	1	1	1
33	4021251	n/s	Label, Nitrogen Charged	-	-	1	1
34	4016123		Label, Caution, Disconnect-Power	1	1	1	1
Older Style Controllers	35	4040027 ⁴	Control Assy, Temp, 1Prb, 1 Relay	1	1	1	1
Older Style Controllers		4040023 ⁵	n/s Controller, Temp, 1 PRB, 1 Relay	-	-	1	1
Older Style Controllers		4020633 ³	Controller, Temp, Elec, 220V,Deg C	1	1	1	1
Older Style Controllers		4020634 ³	Controller, Temp, Elec, 115V,Deg F	1	1	1	1
Newer Style Controllers	36	4021775 ⁴	Controller, Temp, 1 PRB/1 RLY	1	1	1	1
Newer Style Controllers		4021774 ³	Controller, Temp, 2 PRB/4 RLY	1	1	1	1
Newer Style Controllers		4021773 ³	Controller, Temp, 1 PRB/4 RLY	1	1	1	1
	37	- - - - -	Literature 1P-168 (Installation & Operation Instructions)	ref	ref	ref	ref

Note

1. Use ONLY with older style controllers (Eliwell) item 35.
2. Use as replacement for shorter temperature sensor supplied with newer style controllers (Honeywell) item 36.
3. Optional controllers not supplied with Insta-Kool assemblies.
4. Honeywell Replacement
5. Dixell Replacement Part
6. Mounting holes may not align. Some drilling may be required.

Scroll Compressor Assemblies



Carlyle Scroll Compressor Assemblies

SECTION E	PAGE 35
EFFECTIVE: 2/3/2020	

ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=AS REQUIRED)						
		⊗ = OBSOLETE n/s = NOT SHOWN							
	4022071	Cprsr Assy, Scroll, 5Hp, 1Ph	071						
	4022072	Cprsr Assy, Scroll, 5Hp, 3Ph		072					
	4022073	Cprsr Assy, Scroll, 4Hp, 1Ph			073				
	4022074	Cprsr Assy, Scroll, 4Hp, 3Ph				074			
	4022075	Cprsr Assy, Scroll, 3Hp, 1Ph					075		
	4022265	Cprsr Assy, Scroll, 5Hp, 3Ph, 460V						265	
	4022040	Cprsr, Carlyle, 3Hp, 1Ph	-	-	-	-	1	-	
	4022041	Cprsr, Carlyle, 4Hp, 1Ph	-	-	1	-	-	-	
1	4022042	Cprsr, Carlyle, 4Hp, 3Ph	-	-	-	1	-	-	
	4022043	Cprsr, Carlyle, 5Hp, 1Ph	1	-	-	-	-	-	
	4022044	Cprsr, Carlyle, 5Hp, 3Ph	-	1	-	-	-	-	
	4022264	Cprsr, Carlyle, 5Hp, 3Ph, 460V	-	-	-	-	-	1	
2	4014244	Mount Assy, Cprsr, Pk of 4	1	1	1	1	1	1	
3	4020308	Accumulator, Suction, 5Hp	1	1	1	1	1	1	
4	4014797	Filter, Suction Line	1	1	1	1	1	1	
5	1620304	Coupling, Cu, 5/8	1	1	1	1	1	1	
6	4016727	Valve, Svce, OFS, .50 x .62, 1 Port	1	1	1	1	1	1	
7	4015962	Valve, Svce, OFS, .875, 2 Port	1	1	1	1	1	1	
8	1621550	Tee, Rdr, Cu, 7/8 x 7/8 x 1/2	1	1	1	1	1	1	
9	1620218	Adapter, Cu, 1/2 x 1/4 NPT	1	1	1	1	1	1	
10	4080078	Valve, Pressure Relief, 1/4	1	1	1	1	1	1	
11	4021251	n/s Label, Nitrogen Charged	2	2	2	2	2	2	
12	4022249	Label, Danger, Hot Surface	1	1	1	1	1	1	
13	1621320	Reducer, Ftg, Cu, 7/8 x 3/4	-	-	-	-	1	-	
14	4012938	Contactor, DPST, 240V, 40 Amp	1	-	1	-	1	-	
	4015902	n/s Contactor, 3PST, 240V, 30 Amp	-	1	-	1	-	1	
15	4016854	Block, Terminal, 2-Positions	1	1	1	1	1	1	
16	4016123	Label, Warning, Disconnect-Power	1	1	1	1	1	1	
	4017343	Capacitor, Run, 55Mfd	1	-	-	-	-	-	
17	4022529	Capacitor, Run, 50Mfd	-	-	1	-	-	-	
	4017318	Capacitor, Run, 35Mfd	-	-	-	-	1	-	
18	4020562	Clamp, Capacitor, 2.50 Dia	1	-	1	-	-	-	
	4022160	Clamp, Capacitor, Rd, 2.00	-	-	-	-	1	-	
19	4021156	Conn, Cond, 90 Deg, HFC 1/2-90R	1	1	1	1	1	1	
20	1917551	Connector, Dome Nut, 1/2 NPT	1	1	1	1	1	1	
21	3554995	Hose, PVC, Flex, .63 ID	a/r	a/r	a/r	a/r	a/r	a/r	
22	8513814	Nut, Lock, Conduit, 1/2 NPT	4	4	4	4	4	4	
23	4021891	Control, Pressure	1	1	1	1	1	1	
24	8505776	Label, Ground, International	1	1	1	1	1	1	
25	3551897	Lug, Ground, 14 to 8 AWG	1	1	1	1	1	1	
26	4022058	n/s Cord Assy, 3-Cond, 10GA x 30"	1	1	1	1	1	1	
27	4022298	Label, Cprsr, Scroll	1	1	1	1	1	1	
	4022053	Label, Wiring Diag, 1Ph, Scroll	1	-	1	-	1	-	
28	4022054	Label, Wiring Diag, 3Ph, Scroll	-	1	-	1	-	-	
	4022286	Label, Wiring Diag, 3Ph, 460V	-	-	-	-	-	1	
29	4022531	Timer, Lockout, Delay Relay	1	-	1	-	1	-	
30	4014699	Filter, Drier, Liquid Line	1	1	1	1	1	1	
31	4013885	Nut, Brass, Flare, 1/2 x 3/8 Tube	1	1	1	1	1	1	
	4022452	Orifice, J, .082 Dia	1	1	-	-	-	1	
32	4022451	Orifice,G, .073 Dia	-	-	1	1	-	-	
	4022450	Orifice,E, .064 Dia	-	-	-	-	1	-	
33	4018158	Coupling Assy	1	1	1	1	1	1	
	Replacement Compressors - Also see page E-37.								
	4024231 ¹	Cprsr, Cop, 3Hp, 230-1-60	-	-	-	-	1	-	
	4024232 ¹	Cprsr, Cop, 4HP, 230-1-60	-	-	1	-	-	-	
	4024233 ¹	Cprsr, Cop, 4Hp, 230-3-60	-	-	-	1	-	-	
	4024235 ¹	Cprsr, Cop, 5Hp, 230-1-60	1	-	-	-	-	-	
	4024236 ¹	Cprsr, Cop, 5Ph, 230-3-60	-	1	-	-	-	-	
	4024237 ¹	Cprsr, Cop, 5HP, 460-3-60	-	-	-	-	-	1	

Below are recommended components when replacing 1-phase Carlyle to Copeland.

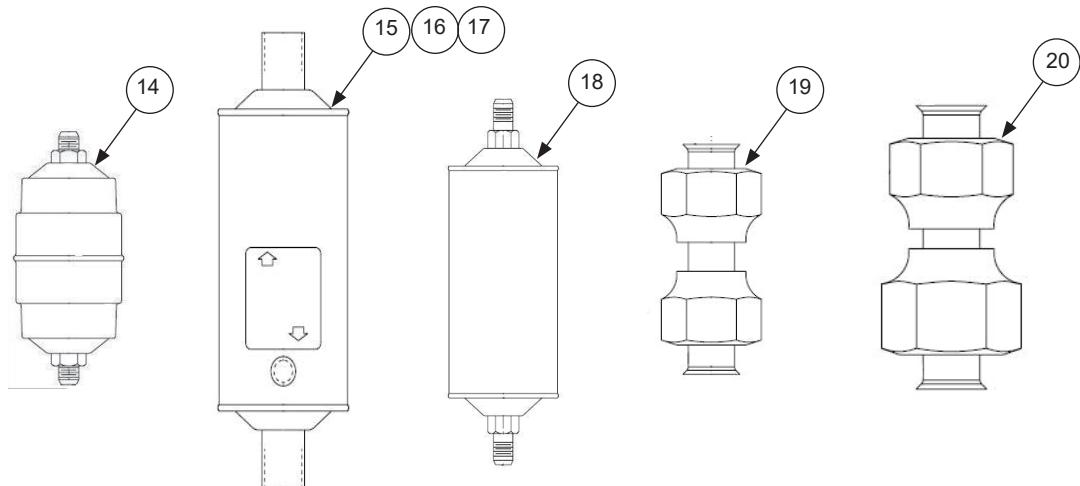
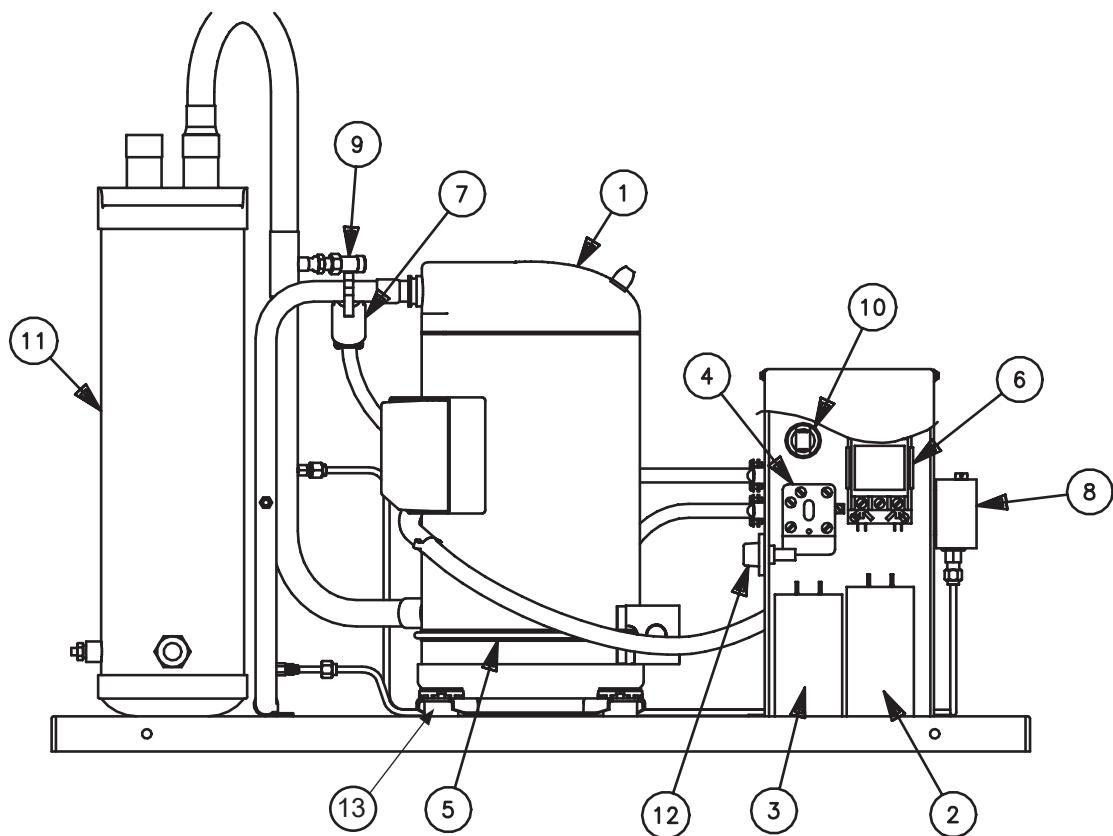
3-phase require compressor only.

4023443	Heater, Crankcase, 240V	1	-	1	-	1	-
4023444	Thermostat, Discharge line	1	-	1	-	1	-
4024323	Capacitor, Run, 60 MFD, 370V	-	-	-	-	1	-
4024463	Capacitor, Run, 80 MFD, 370V	-	-	1	-	-	-
4024324	Capacitor, Run, 50 MFD, 440V	1	-	-	-	-	-
4024325	Relay, Cprsr, Start	1	-	1	-	1	-
4082287	Capacitor, Start, 270-324MFD	1	-	1	-	1	-

Note:

1. For all initial Copeland scroll compressor replacements in former compressor assemblies, the holes in the mounting base may need to be re-drilled to match the compressor mounting brackets. Use the same rubber feet from the old compressor on the new Copeland scroll replacement. Be prepared with a few extra copper fittings to make the refrigeration tubing connections match up. The main electrical power connection on all Copeland scroll compressor use screw terminals. For Copeland scroll replacement of Carlyle scrolls where a molded rubber plug connects to the compressor body, either cut the plug end off and prepare the end of the wire to use the screw terminals on the Copeland scroll body, or replace the entire wire with a length of flexible conduit and new wires.

Copeland Modular Compressor Units



Copeland Modular Compressor Units

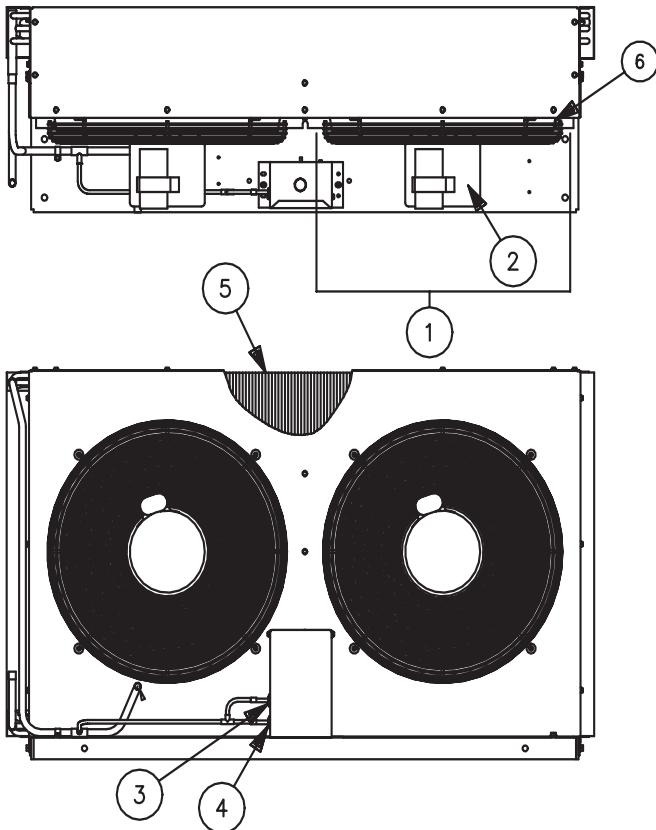
SECTION E	PAGE 37
EFFECTIVE: 2/3/2020	

ITEM	PART NO.	⊗=OBSOLETE n/s=NOT SHOWN	DESCRIPTION	QTY REQUIRED (a/r=aS REQUIRED)
	4023881	⊗	Cprsr, Mod, Cop, 3Hp, 230-1-60	881
	4023882	⊗	Cprsr, Mod, Cop, 4Hp, 230-1-60	882
	4023883	⊗	Cprsr, Mod, Cop, 4Hp, 230-3-60	883
	4023884	⊗	Cprsr, Mod, Cop, 4Hp, 240-1-50	884
	4023885	⊗	Cprsr, Mod, Cop, 5Hp, 230-1-60	885
	4023886	⊗	Cprsr, Mod, Cop, 5Hp, 230-3-60	886
	4023887	⊗	Cprsr, Mod, Cop, 5Hp, 460-3-60	887
	4023888	⊗	Cprsr, Mod, Cop, 7.5Hp, 230-3-60	888
	4025954	⊗	Cprsr, Mod, Cop, 7.5Hp, 230-3-50/60	954
	4023889	⊗	Cprsr, Mod, Cop, 7.5Hp, 460-3-60	889
	4025955	⊗	Cprsr, Mod, Cop, 7.5Hp, 460-3-50/60	955
	4023890	⊗	Cprsr, Mod, Cop, 10Hp, 460-3-60	890
	4023891	⊗	Cprsr, Mod, Cop, 10Hp, 230-3-60	891
	4024231		Cprsr, Cop, 3Hp, 230-1-60, Scroll	1 - - - - - - - - - - - - - -
	4024232		Cprsr, Cop, 4Hp, 230-1-60, Scroll	- 1 - - - - - - - - - - - - - -
	4024233		Cprsr, Cop, 4Hp, 230-3-60, Scroll	- - - 1 - - - - - - - - - - - -
	4024234	⊗	Cprsr, Cop, 4Hp, 240-1-50, Scroll	- - - - 1 - - - - - - - - - - -
	4024235		Cprsr, Cop, 5Hp, 230-1-60, Scroll	- - - - - - 1 - - - - - - - - -
1	4024236		Cprsr, Cop, 5Hp, 230-3-60, Scroll	- - - - - - - 1 - - - - - - - -
	4024237		Cprsr, Cop, 5Hp, 460-3-60, Scroll	- - - - - - - - 1 - - - - - - -
	4024238	⊗	Cprsr, Cop, 7.5Hp, 230-3-60, Scroll	- - - - - - - - - - 1 - - - - -
	4024239	⊗	Cprsr, Cop, 7.5Hp, 460-3-60, Scroll	- - - - - - - - - - - 1 - - - -
	4024240	⊗	Cprsr, Cop, 10Hp, 460-3-60, Scroll	- - - - - - - - - - - - 1 - - -
	4024241	⊗	Cprsr, Cop, 10Hp, 230-3-60, Scroll	- - - - - - - - - - - - - - 1 -
2	4082287		Capacitor, Start, 270-324Mfd	1 1 - 1 1 - - - - - - - - - -
	4024323		Capacitor, Run, 60Mfd	1 - - - - - - - - - - - - - - -
3	4024463		Capacitor, Run, 80Mfd	- 1 - - - - - - - - - - - - - -
	4024324		Capacitor, Run, 50Mfd	- - - - 1 1 - - - - - - - - - -
4	4024325		Relay, Cprsr, Start	1 1 - - - - - - - - - - - - - -
	4024326		Relay, Cprsr, Start	- - - 1 1 - - - - - - - - - -
	4023443		Heater, Crankcase, 240V	1 1 1 1 1 1 1 - - - - - - - -
5	4024328	⊗	Heater, Crankcase, 460V	- - - - - - - - - - 1 - - - - -
	4024330	⊗	Heater, Crankcase, 240V	- - - - - - - - - - - 1 - - - 1
	4024331	⊗	Heater, Crankcase, 480V	- - - - - - - - - - - - - 1 1 -
6	4012938		Contactor, DPST, 240V, 40A	1 1 - 1 1 - - - - - - - - - -
	4015902		Contactor, 3PST, 240V, 30A	- - - 1 - - - 1 1 - - - - - -
	4012385	⊗	Contactor, 3PST, 240V, 40A	- - - - - - - - - - 1 1 1 1 1 1
7	4023444		Thermostat, Discharge Line	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8	4024511		Control, Low Pressure, Cpsr	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
9	4080078	⊗	Valve, Pressure Relief, 1/4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10	4024044	⊗	Control, High Pressure, Cpsr	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11	4020308	⊗	Accumulator Assy 5 HP	1 1 1 1 1 1 1 1 - - - - - -
	4025051	⊗	Accumulator Assy 7.5 HP	- - - - - - - - - - 1 1 1 1 1 1
12	4025302		Fuse, 0.3A, Fast, 1.5 x .4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	4040009 ¹	⊗	Mount Assy, Cprsr, Cop 3-5Hp, 4Pk	1 1 1 1 1 1 1 1 - - - - - -
13	4040010 ¹	⊗	Mount Assy, Cprsr, Cop 7.5Hp, 4Pk	- - - - - - - - - - 1 1 - -
Orifice and Filter Kits (Sold Separately)				
	4024224	⊗	Kit, Filter/Orifice, 3-4HP, Scroll	1 1 1 1 - - - - - - - - - -
	4024225		Kit, Filter/Orifice, 5HP, Scroll	- - - - 1 1 1 1 - - - - - -
	4024226		Kit, Filter/Orifice, 7.5HP, Scroll	- - - - - - - - - 1 1 - - -
	4024227	⊗	Kit, Filter/Orifice, 10HP, Scroll	- - - - - - - - - - - 1 1
14	4014699		Filter, Drier, Liquid, 1/2 Flare	1 1 1 1 1 1 1 1 - - - - - -
15	4014797		Filter, Suction Line, 7/8 ID	1 1 1 1 1 1 1 1 - - - - - -
16	4016133		Filter, Suction Line, 1-1/8 ID	- - - - - - - - - - 1 1 -
17	4019403	⊗	Filter, Suction Line, 1-3/8 ID	- - - - - - - - - - - - 1 1
18	4019339		Filter, Drier, Suction, 5/8 Flare	- - - - - - - - - - 1 1 1 1
19	4018158		Coupling Assy	1 1 1 1 1 1 1 1 - - - - - -
20	4024221		Coupling Assy, 5/8 x 1/2 Tube	- - - - - - - - - - 1 1 1 1
21	4022450	⊗	Orifice, E, 0.64 Dia. (.52) (50 Hz only) (not sold in 4024224 kit)	1 - - - - - - - - - - - - - -
22	4018465		Orifice, F, (.4), .070 Diameter (50)	- - - 1 - - - - - - - - - -
23	4022451	⊗	Orifice, G, .073 Dia. (.49) (Qty 2 = Split)	- 1 1 - - - - - 2 2 - -
24	4018466		Orifice, H, (.5), .078 Dia. (.47) (Qty 2 = Split)	- - - 1 1 1 - - 2 2 2
25	4018467		Orifice, L, (.7), .093 Diameter (42)	- - - - - - - - - 1 1 - -
26	4024219		Orifice, (O), .125 Diameter (1/8)	- - - - - - - - - - - 1 1
27	4013885		Nut, Brass, Flare, 1/2 x 3/8 Tube	1 1 1 1 1 1 1 - - - - -

Note:

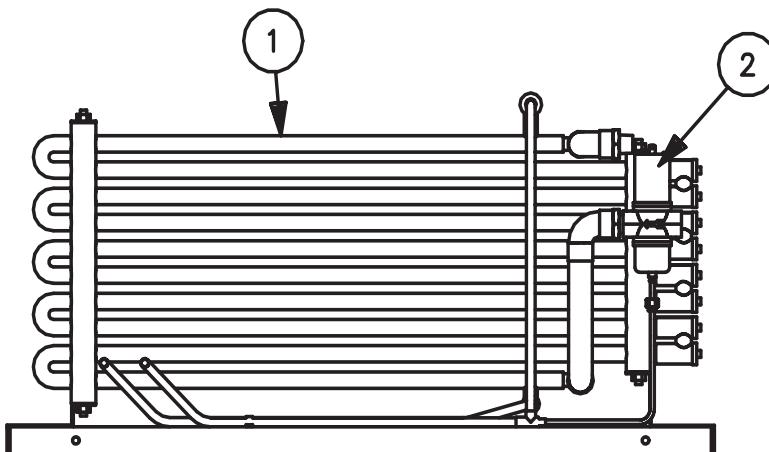
1. Compressor Mount Assemblies (4040009 & 4040010) are sold separately.

Copeland Modular Condenser, Air Cooled



ITEM	PART NO.	⊗=OBsolete n/s=NOT SHOWN	DESCRIPTION	QTY. REQ.	
				B/F	AS REQ.
	4023893	⊗	Cond. Mod, 5.0T, Air, 230-1-60	893	
	4023894	⊗	Cond. Mod, 7.5T, Air, 230-1-60	894	
1	4024315	⊗	Motor Assy, Cond, 5T, 230-1-60	1	-
	4024316	⊗	Motor Assy, Cond, 7.5T, 230-1-60 (Includes Blade, Guard & item 2)	-	1
2	4024317		Motor, Cond, 5Hp, 230V-60Hz	1	-
	4024318		Motor, Cond, 7.5Hp, 230V-60Hz	-	1
3	4023523		Switch, Fan No. 1, 215C1/165C0	1	1
4	4023522		Switch, Fan No. 2, 255C1/185C0	1	1
5	4024319	⊗	Coil, Condenser, 41" x 25-1/4"	1	-
	4024320	⊗	Coil, Condenser, 40-5/8" x 35-1/4" (Does not include shrouding)	-	1
6	4025052		Blade, Fan 3-5 HP Scroll	1	-
	4025053		Blade, Fan 7.5-10 HP Scroll	-	1

Copeland Modular Condenser, Water Cooled



ITEM	PART NO.	⊗=Obsolete n/s=Not Shown	DESCRIPTION	QTY. REQ.
	4023895	⊗	Cond. Mod, 8.0T, Wtr	895
	4023896	⊗	Cond. Mod, 12.0T, Wtr	896
1	4024321	⊗	Condenser, 8.0 Ton, Water Cooled	1 -
	4024322	⊗	Condenser, 12 Ton, Water Cooled	- 1
2	4020883		Valve, Water Regulating, 3/4 In	1 -
	4019346	⊗	Valve, Water Regulating, 1 In.	- 1

Condensing Units from BouMatic

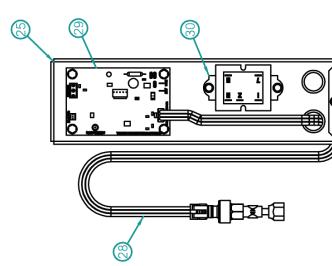
SECTION

PAGE

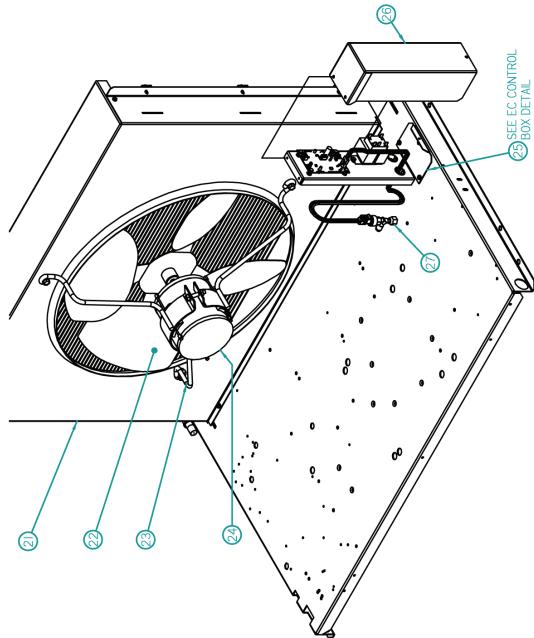
39

EFFECTIVE:

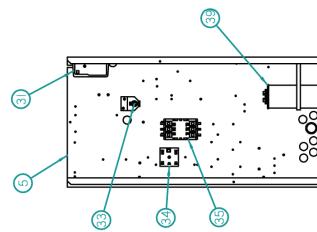
5/22/12



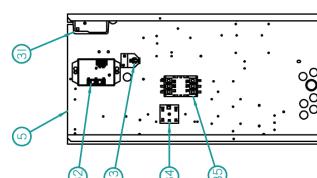
EC CONTROL BOX DET



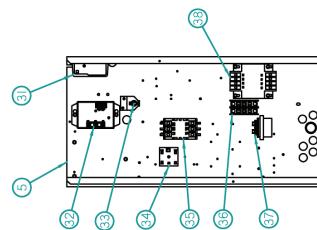
(230V) VSEC MOTOR OPTION WITH ORBUS CONTROLLER



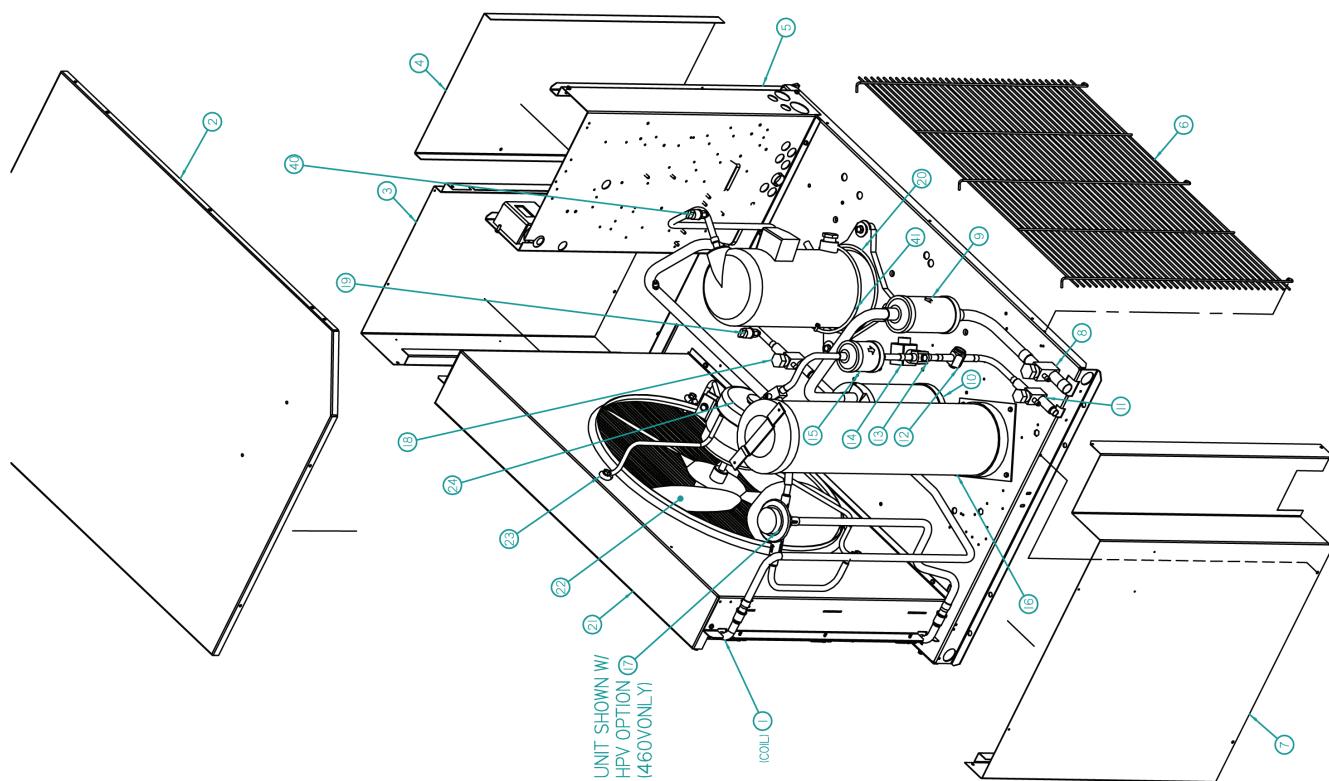
E. BOX 208/230V IPH



E. BOX 208/230V 3PH



E. BOX 460V



Condensing Units from BouMatic

Item	Part No.	Description	Quantity Required (A/R = As Required)
...	4040165	COND UNIT,3HP,208/230,3PH,507	0165
...	4040164	COND UNIT,3HP,460/380,3PH,507	0164
...	4040166	COND UNIT,3HP,208/230,1PH,507	0166
...	4040151	COND UNIT,4HP,208/230,3PH,507	0151
...	4040150	COND UNIT,4HP,460/380,3PH,507	0150
...	4040152	COND UNIT,4HP,208/230,1PH,507	0152
...	4040154	COND UNIT,5HP,208/230,3PH,507	0154
...	4040153	COND UNIT,5HP,460/380,3PH,507	0153
...	4040155	COND UNIT,5HP,208/230,1PH,507	0155
...	4040157 ⊗	COND UNIT,6HP,208/230,3PH,507	0157
...	4040156 ⊗	COND UNIT,6HP,460/380,3PH,507	0156
1	4040286	COND,MOZ,4-6HP,RPLC	1
2	4040292	⊗ PANEL, TOP COVER,MOZ,RPLC	1
3	4040330	PANEL,RIGHT,MOZ,RPLC	1
4	4040290	⊗ PANEL,ELE,MOZ,RPLC	1
5	4040331	BOX,ELE,MOZ,RPLC	1
6	4040293	⊗ GUARD,FINGER,MOZ,RPLC	1
7	4040332	PANEL,LEFT,MOZ,RPLC	1
8	4040288	VALVE,RFG,SUCT,7/8",RPLC	1
9	4040281	FILTER,SUCTION 7/8",RPLC	1
10	4040282	⊗ ACCUMULATOR,7/8"ODF,RPLC	1
11	4040289	VALVE,RFG,LIQ,1/2",RPLC	1
12	4040278	GLASS,SIGHT,RFG,1/2",RPLC	1
13	4040279	VALVE,SOL,RFG,1/2",RPLC	1
14	4040333	⊗ COIL,SOLENOID,RPLC	1
15	4040280	FILTER/DRIER,RFG,1/2",RPLC	1
16	4040275	RECEIVER,RFG,20LB CAP	1
17	4040334	VLV,HEAD PRESSURE RPLC	1
18	4040287	VALVE,RFG,DISCH,3/8"RPLC	1
19	4040284	SWITCH,RFG,HIGH PRESS,RPLC	1
21	4040335	PANEL,FAN,MOZ,RPLC	1
22	4040336	FAN,BLADE,MOZ,RPLC	1
23	4040337	MOUNT,MOTOR,MOZ,RPLC	1

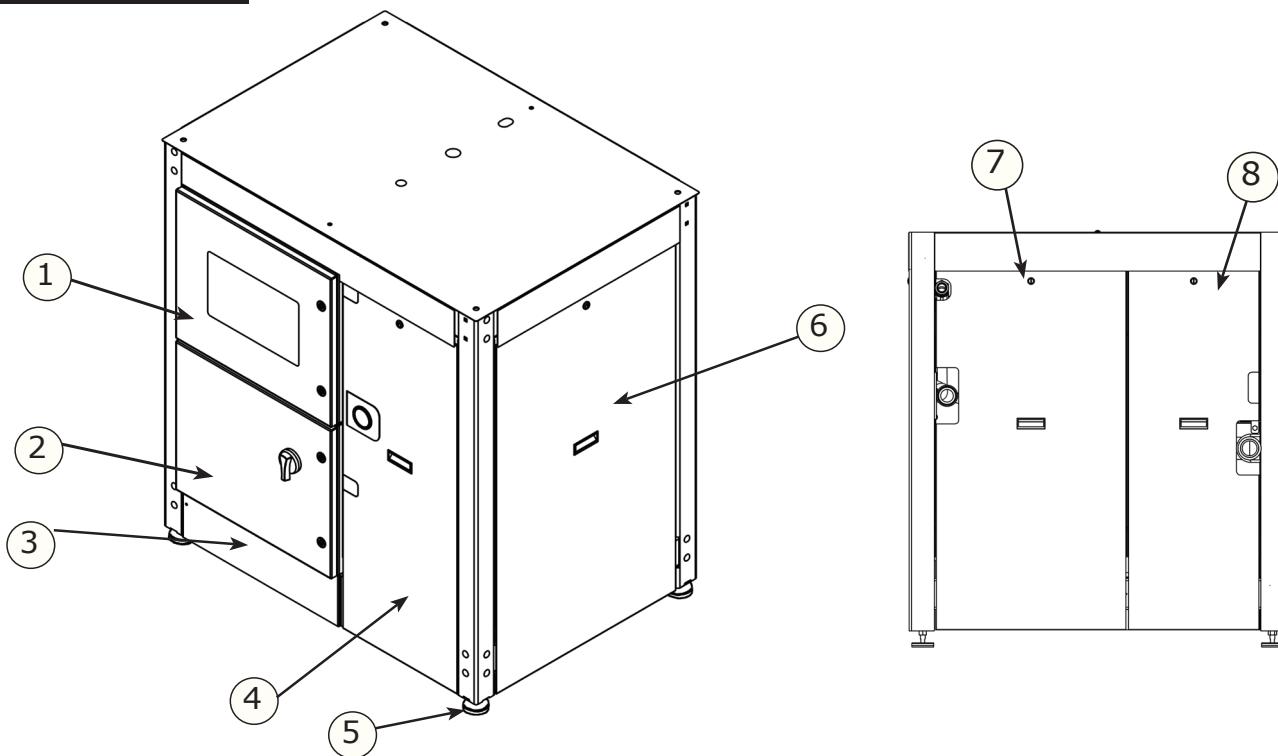
Condensing Units from BouMatic

 SECTION **E**
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 EFFECTIVE: **5/22/12**

Item	Part No.	Description	Quantity Required (A/R = As Required)
...	4040165	COND UNIT,3HP,208/230,3PH,507	0165
...	4040164	COND UNIT,3HP,460/380,3PH,507	0164
...	4040166	COND UNIT,3HP,208/230,1PH,507	0166
...	4040151	COND UNIT,4HP,208/230,3PH,507	0151
...	4040150	COND UNIT,4HP,460/380,3PH,507	0150
...	4040152	COND UNIT,4HP,208/230,1PH,507	0152
...	4040154	COND UNIT,5HP,208/230,3PH,507	0154
...	4040153	COND UNIT,5HP,460/380,3PH,507	0153
...	4040155	COND UNIT,5HP,208/230,1PH,507	0155
...	4040157 ☒	COND UNIT,6HP,208/230,3PH,507	0157
...	4040156 ☒	COND UNIT,6HP,460/380,3PH,507	0156
24	4040338	MOTOR,FAN,230V,MOZ,RPLC	1 - 1 - 1 - 1 - 1 - 1 -
24	4040339	MOTOR,FAN,460V,MOZ,RPLC	- 1 - 1 - 1 - 1 - 1 - 1 -
25	4040340	PANEL,ORBUS,MOZ,RPLC	1 1 1 1 1 1 1 1 1 1 1
26	4040341	COVER,ORBUS,MOZ,RPLC	1 1 1 1 1 1 1 1 1 1 1
27	4040342	SNSR,PRESS,ORBUS,MOZ,RPLC	1 1 1 1 1 1 1 1 1 1 1
29	4040343	ORBUS BOARD,MOZ,RPLC	1 1 1 1 1 1 1 1 1 1 1
30	4040344	TRANSFORMER,ORBUS ,MOZ,RPLC	1 1 1 1 1 1 1 1 1 1 1
31	4040283	SWITCH,RFQ,LOW PRESS,RPLC	1 1 1 1 1 1 1 1 1 1 1
32	4040345	PHASE MONITOR ,MOZ,RPLC	1 1 1 1 1 1 1 1 1 1 1
33	4040291	SWITCH,PUMP DOWN,MOZ,RPLC	1 1 1 1 1 1 1 1 1 1 1
34	4040346	RELAY/TIME DELAY,MOZ,RPLC	1 1 1 1 1 1 1 1 1 1 1
4040354		CONTACTOR,COMP,230V/1,MOZ,RPLC,3hp	- - - - - - - - - -
4040355		CONTACTOR,COMP,230V/1,MOZ,RPLC,4HP	- - - - - - - - - -
35	4040356	CONTACTOR,COMP,230V/1,MOZ,RPLC,5HP	- - - - - - - - - -
4040357		CONTACTOR,COMP,230V/3,MOZ,RPLC,3-5HP	- - - - - - - - - -
4040358		CONTACTOR,COMP,460V/3,MOZ,RPLC,3-6HP	- - - - - - - - - -
36	4040347	FUSE BLOCK,MOZ,RPLC	1 1 1 1 1 1 1 1 1 1 1
37	4040348	CAPACITOR,FAN ,MOZ,RPLC	1 1 1 1 1 1 1 1 1 1 1
38	4040349	TRANSFORMER,CONTROL ,MOZ,RPLC	1 1 1 1 1 1 1 1 1 1 1
39	4040350	CAPACITOR,RUN,,MOZ,RPLC,3HP	1 1 1 1 1 1 1 1 1 1 1
40	4040285	SENSOR,TEMP,HI DISCH,RPLC	1 1 1 1 1 1 1 1 1 1 1
41	4040353	HEATER,CRANKCASE,MOZ,RPLC	1 1 1 1 1 1 1 1 1 1 1

GlacierChill Design Sequence* A

Air-Cooled Compressor Module

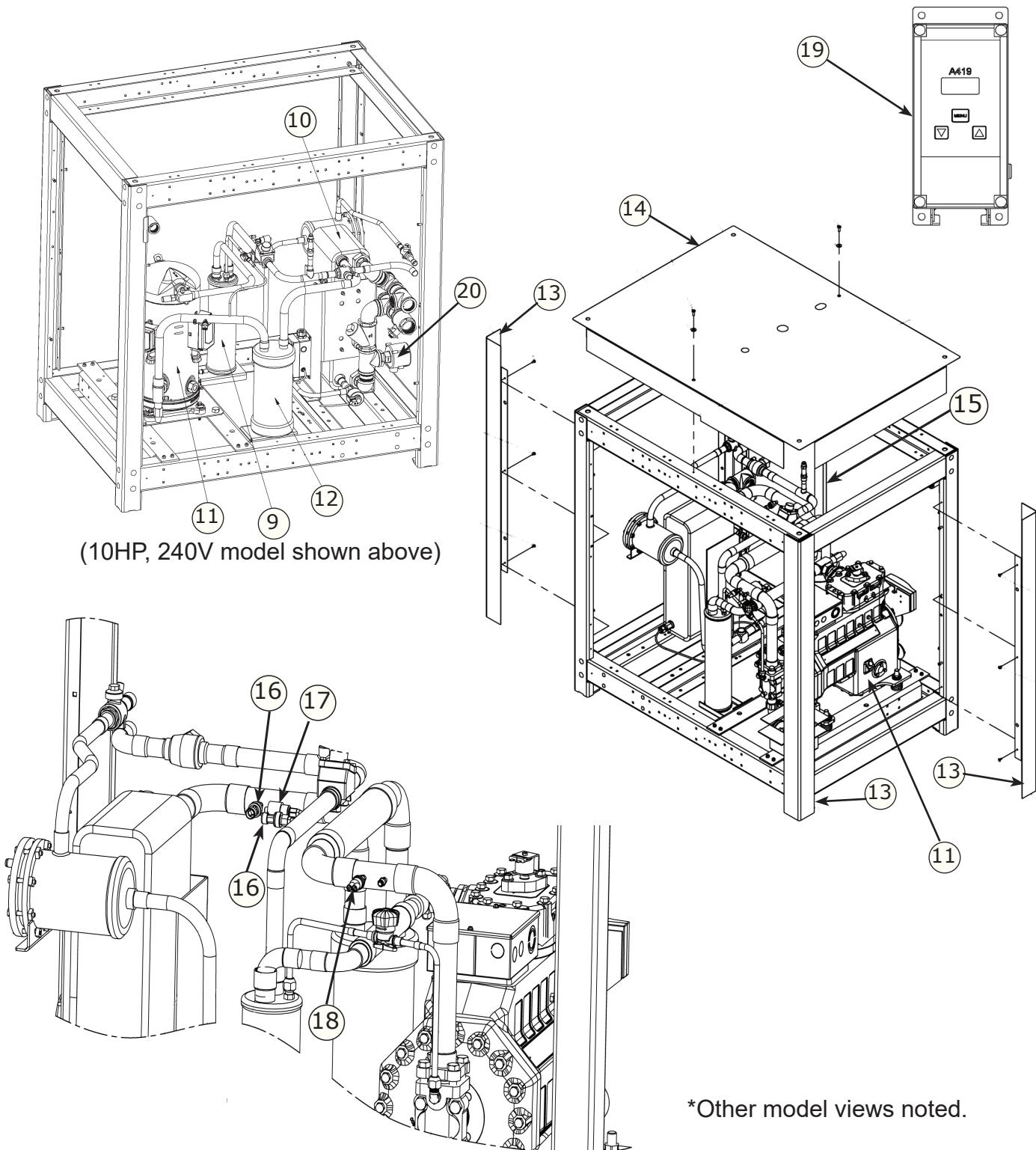


ITEM	PART NO.	⊗=Obsolete n/s=Not Shown	DESCRIPTION	QTY REQUIRED (a/r=As Required)			
	4040871		Chiller Assy, 15HP, RMT Air, 460	0871			
	4040972		Chiller Assy, 10HP, RMT Air, 460		0972		
	4040983		Chiller Assy, 15HP, RMT Air, 230			0983	
	4040982		Chiller Assy, 10HP, RMT Air, 230				0982
1	4040811		Enclosure Assy, Cont, Comp Mod	1	1	1	1
	4040812		Enclosure Assy, Pwr, 15HP, 460	1	-	-	-
2	4040934		Enclosure Assy, Pwr, 10HP, 460	-	1	-	-
	4040813		Enclosure Assy, Pwr, 15HP, 230	-	-	1	-
	4040814		Enclosure Assy, Pwr, 10HP, 230	-	-	-	1
3	4040823		Panel, Bottom, Fill-in	1	1	1	1
4	4040802		Panel Assy, Front, Chlr, Mod	1	1	1	1
5	4040771		Foot, Leveling, 5/8 x 4 BL	4	4	4	4
6	4040797		Panel Assy, Side, Chiller, Mod	2	2	2	2
7	4040805		Panel Assy, Back, Large, Chlr, Mod	1	1	1	1
8	4040804		Panel Assy, Back, Small, Chlr, Mod	1	1	1	1
9	4040821		Separator, Oil, 15HP	1	-	1	-
	4040255		Separator, Oil, 10HP	-	1	-	1
10	4040761		Evaporator Assy, Chiller Module	1	-	1	-
	4040885		Evaporator Assy, Chiller, 10HP	-	1	-	1
	4040749		Compressor Assy, Chiller, 15HP, 460V	1	-	-	-
11	4040878		Compressor Assy, Chiller, 10HP, 460V	-	1	-	-
	4041039		Compressor Assy, Chiller, 15HP, 230V	-	-	1	-
	4041041		Compressor Assy, Chiller, 10HP, 230V	-	-	-	1
12	4040706		Accumulator, 15PH	1	-	1	-
	4041028		Accumulator, 10HP	-	1	-	1
13	4040320		Panel, Corner, Chiller	4	4	4	4
14	4040319		Panel, Top, Chiller, Mod	1	1	1	1
15	4040809		Support, Vert, Cntr, Chlr	1	1	1	1
16	4040186		Transducer, Pressure, 0-500 PSI	2	2	2	2
17	4040247		Switch, Safety, High Pressure	1	1	1	1
18	4040248		Switch, Safety, Low Pressure	1	1	1	1
19	4040326		Control, Temp, Elect, Nema 4x	1	1	1	1
20	4040325		Switch, Flow, 1.00, NEMA 4	1	1	1	1

* The 10th digit of the model number found on the unit data plate designates design sequence.

**GlacierChill Design Sequence* A
15 HP* Air Cooled Compressor Module**

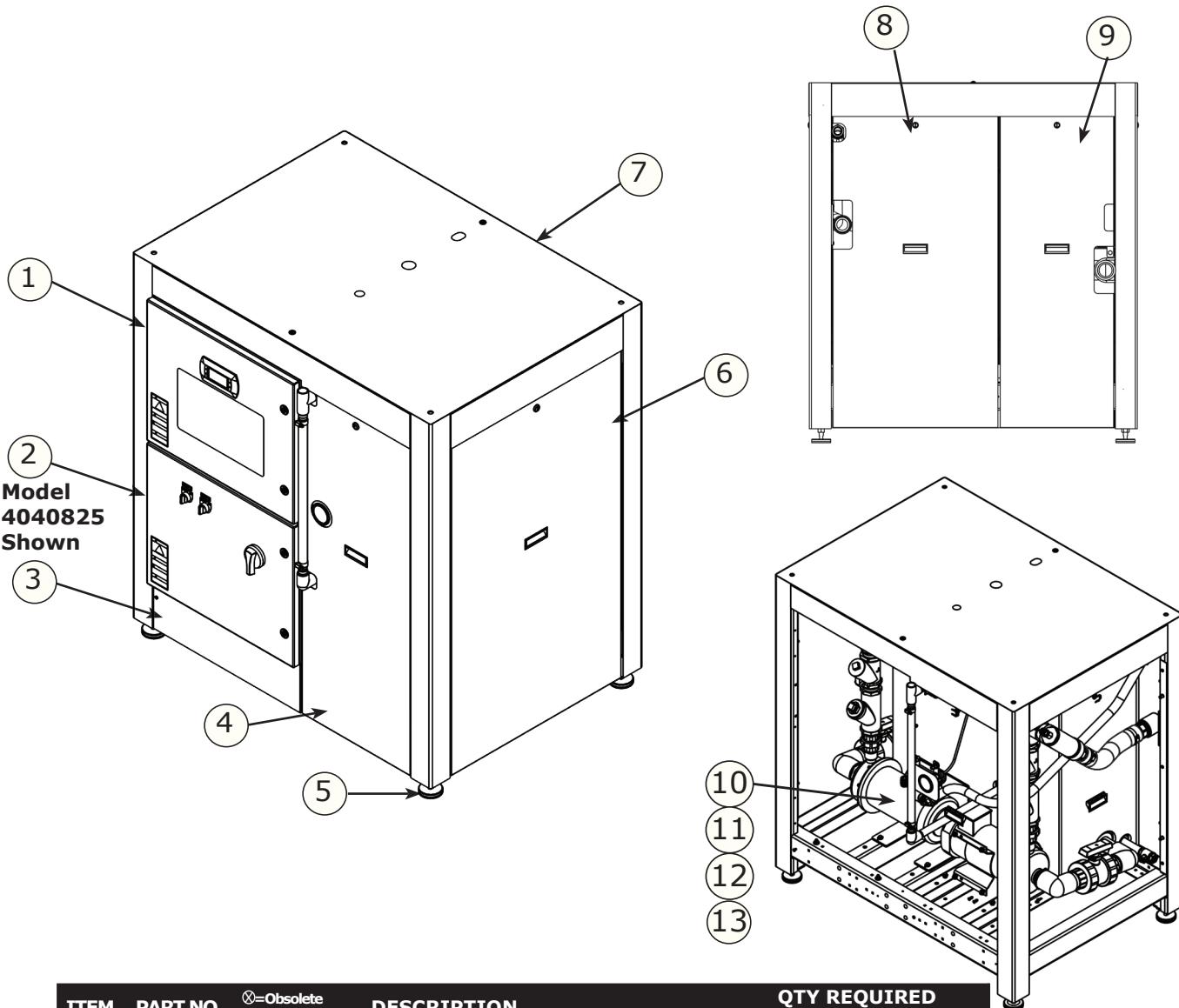
SECTION E PAGE 43
EFFECTIVE: 4/15/15



*Other model views noted.

* The 10th digit of the model number found on the unit data plate designates design sequence.

GlacierChill Design Sequence* A
Glycol Module



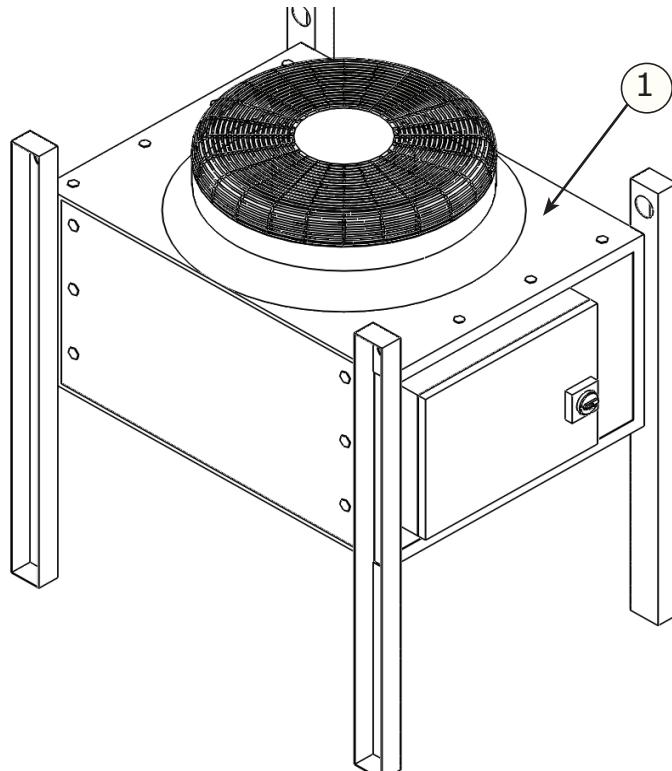
ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)
	4040825	Tank/Pump Assy, 5HP Glycol Module	0825
	4040981	Tank/Pump Assy, Glycol Mod, 230V	0981
1	4040835	Enclosure Assy, Cont, Gly Mod	1 1
	4040837	CONTROL ASSY,PWR, GLYCOL,460V	1 -
2	4041030	CONTROL ASSY,PWR, GLYCOL,230V	- 1
3	4040823	Panel, Bottom, Fill-in	1 1
4	4040802	Panel Assy, Front, Chlr, Mod	1 1
5	4040771	Foot, Leveling, 5/8 x 4 BL	4 4
6	4040797	Panel Assy, Side, Chiller, Mod	2 2
7	4040319	Panel, Top, Chiller, Mod	1 1
8	4040805	Panel Assy, Back, Large, Chlr, Mod	1 1
9	4040804	Panel Assy, Back, Small, Chlr, Mod	1 1
10	4040807	Pump, 5HP, 232, Scot, 5.8 IMP	2 2
11	4041601	Seal Kit, Gly Pump, 5HP, Chiller	2 2
12	4041600	Impeller, Gly Pump, 5HP, Chiller	2 2
13	4041621	Motor,Pump,5HP,Scot	a/r a/r

* The 10th digit of the model number found on the unit data plate designates design sequence.

Remote GlacierChill Design Sequence* A

Air-Cooled Condensers

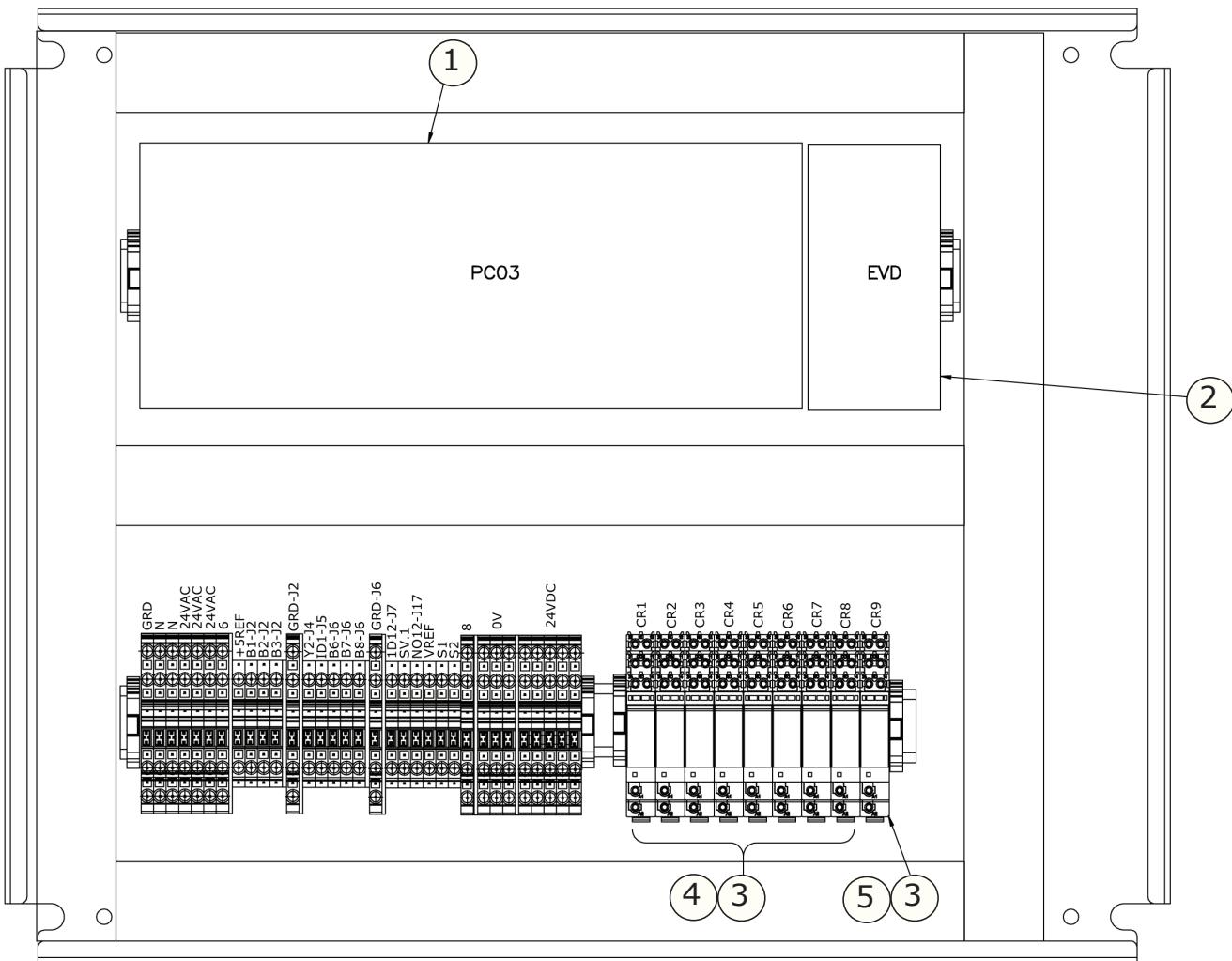
SECTION E	PAGE 45
EFFECTIVE: 7/23/13	



ITEM	PART NO.	⊗=Obsolete n/s=Not Shown	DESCRIPTION	QTY REQUIRED (a/r=As Required)			
	4040984		Cond, Air, Remote, 240/3/60, 10 HP	0984			
	4040359		Cond, Air, Remote, 460/3/60, 10 HP		0359		
	4040985		Cond, Air, Remote, 230/3/60, 15 HP			0985	
	4040260		Cond, Air, Remote, 460/3/60, 15 HP				0260
	4041020		Motor & Fan Assy, Condenser, 230V	1	-	1	-
1	4041019		Motor & Fan Assy, Condenser, 460V	-	1	-	1

* The 10th digit of the model number found on the unit data plate designates design sequence.

GlacierChill Design Sequence* A
Air-Cooled Compressor Module



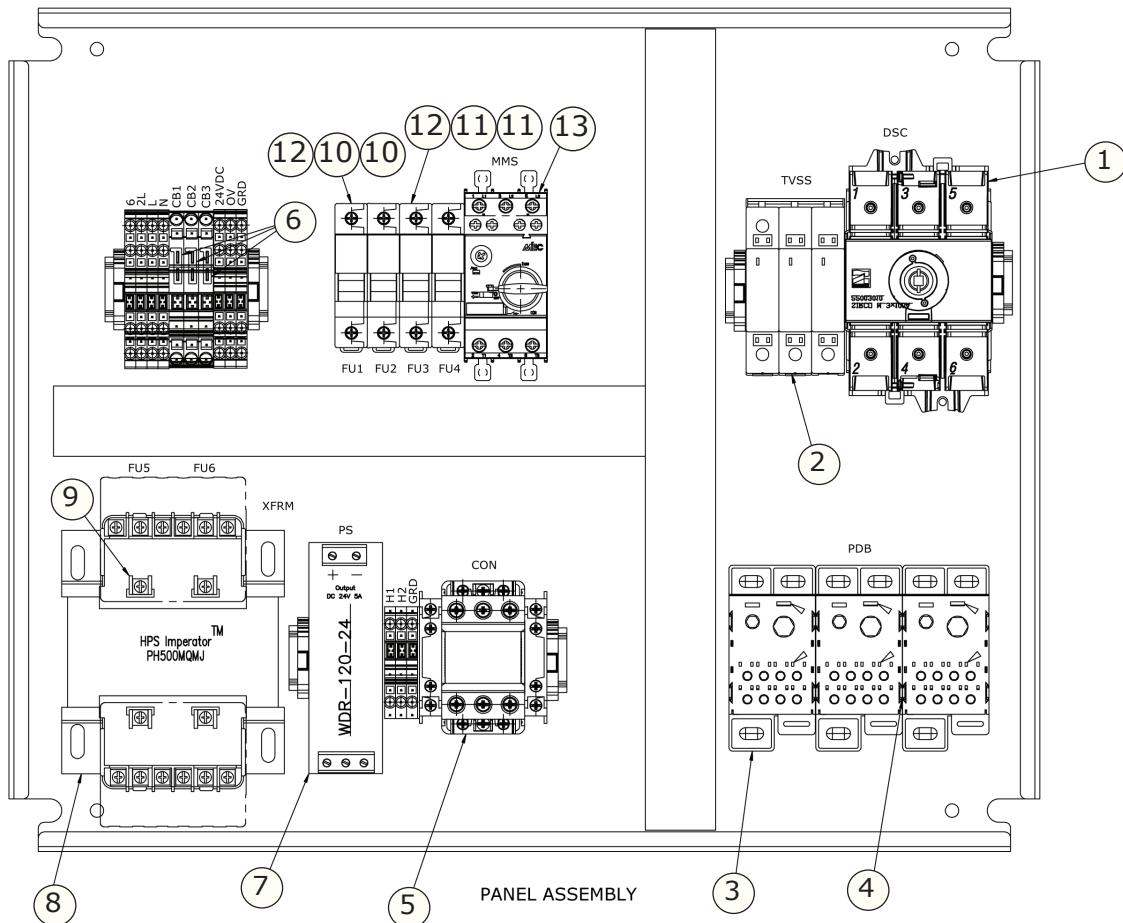
PANEL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)
	4040811	ENCLOSURE ASSY, CONT, COMP MOD	0811
1	4040850	CONTROLLER,PC03,MEDIUM,PGD1	1
2	4040851	CONTROLLER,UNIVERSAL,EVD,PLAN	1
3	4041008	RELAY SKT,2 POLE,8A,250VAC/24V	9
4	4041009	RELAY PLUG,2 POLE,8A,250VAC/24	8
5	4041016	PCB RELAY,3A,240VAC/24VDC	1

* The 10th digit of the model number found on the unit data plate designates design sequence.

GlacierChill Design Sequence* A
Air-Cooled and Water-Cooled
Compressor Module

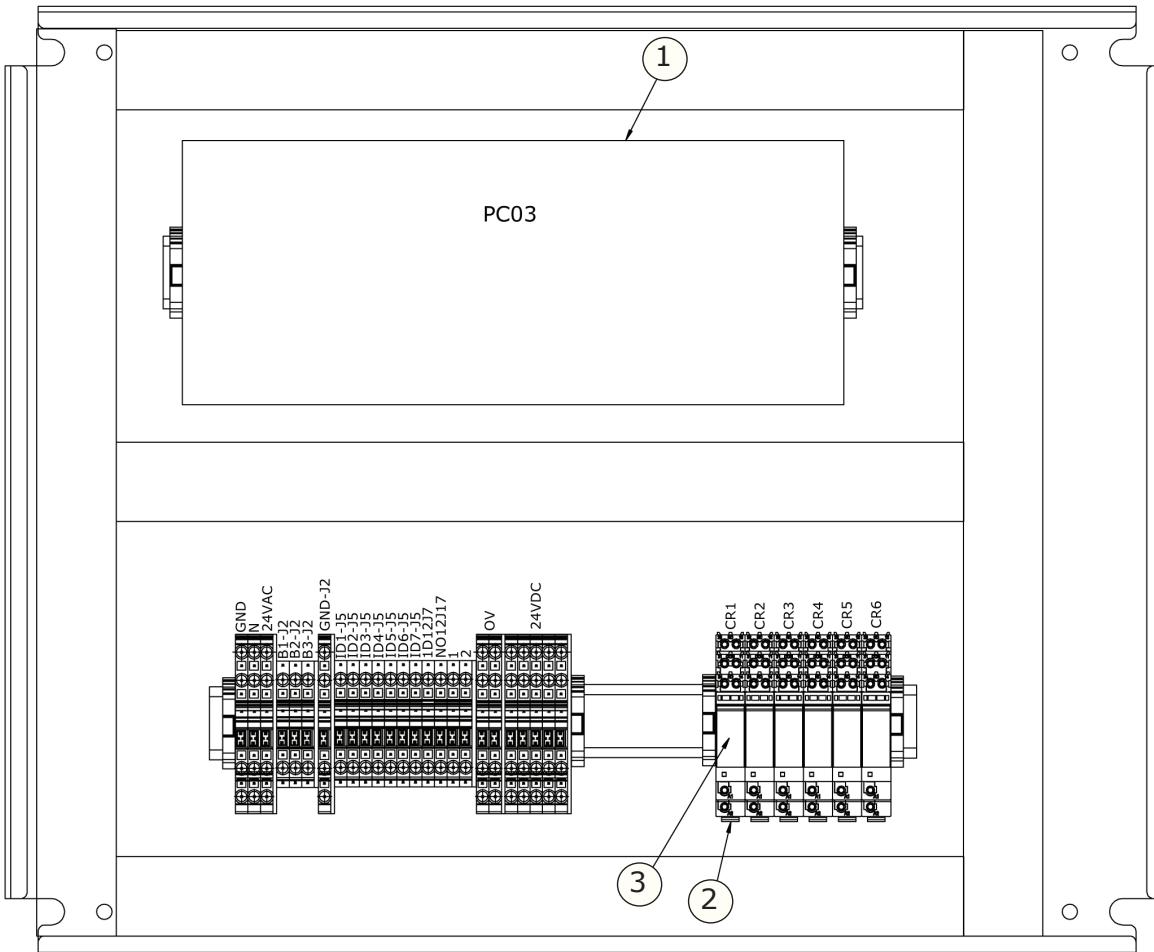
SECTION E	PAGE 47
EFFECTIVE: 10/16/12	



ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)		
	4040934	Enclosure Assy, PWR,10HP,460V	0934		
	4040813	Enclosure Assy, PWR,15HP,230V		0813	
	4040814	Enclosure Assy, PWR,10HP,230V			0814
1	4040994	DISCONNECT,NON-FUSED,60A	1	-	-
	4041023	DISCONNECT,NON-FUSED,100A	-	1	1
2	4040995	SURGE PROTECTOR,MODULAR	1	-	-
	4041036	SURGE PROTECTOR,MODULAR,240V	-	1	1
5	4040998	CONTACTOR,32A/24VAC,2ON/2NC	1	-	-
	4041044	CONTACTOR,75A/24VAC,2NO/2NC	-	1	-
	4041046	CONTACTOR,65A/24VAC,2ON/2NC	-	-	1
6	4041007	CIRCUIT BREAKER,4A,250VAC/65VDC	3	3	3
7	4041006	POWER SUPPLY,550VAC,24VDC	1	1	1
8	4041005	TRANSFORMER,500VA	1	1	1
9	4041002	FUSE, 4A,CLASS CC,TRANS DUTY	2	2	2
10	4041000	FUSE, 1A,CLASS CC,MOTOR DUTY	2	2	2
11	4041001	FUSE, 3A,CLASS CC,MOTOR DUTY	2	2	2
12	4040976	FUSE HOLDER,2-POLE,CC	2	2	2
13	4040999	CONTROLLER,MOTOR,COMB,18-26A	1	-	-
	4041022	CONTROLLER,MOTOR,COMB,45-63A	-	1	-
	4041048	CONTROLLER,MOTOR,COMB,34-50A	-	-	1

* The 10th digit of the model number found on the unit data plate designates design sequence.

**GlacierChill Design Sequence* A
Glycol Module**



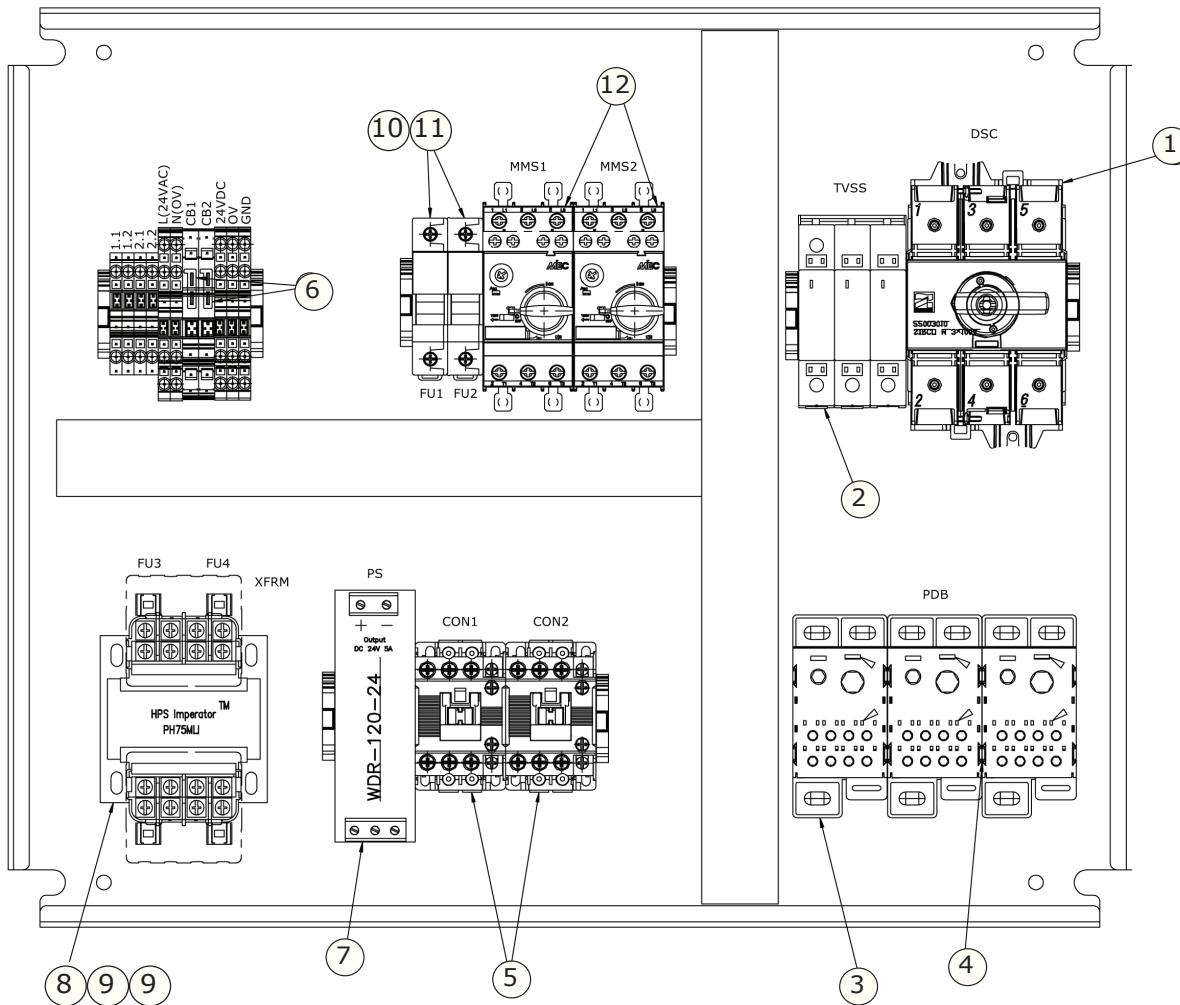
PANEL ASSEMBLY

ITEM	PART NO.	Obsolete n/s=Not Shown	DESCRIPTION	QTY REQUIRED (a/r=As Required)
	4040835		CONTROL ASSY, GLYCOL MODULE	0835
1	4040689		CONTROLLER,PCO MEDIUM,CAREL	1
2	4041008		RELAY SKT,2 POLE,8A,250VAC/24V	6
3	4041009		RELAY PLUG,2 POLE,8A,250VAC/24	6

* The 10th digit of the model number found on the unit data plate designates design sequence.

GlacierChill Design Sequence* A Glycol Module

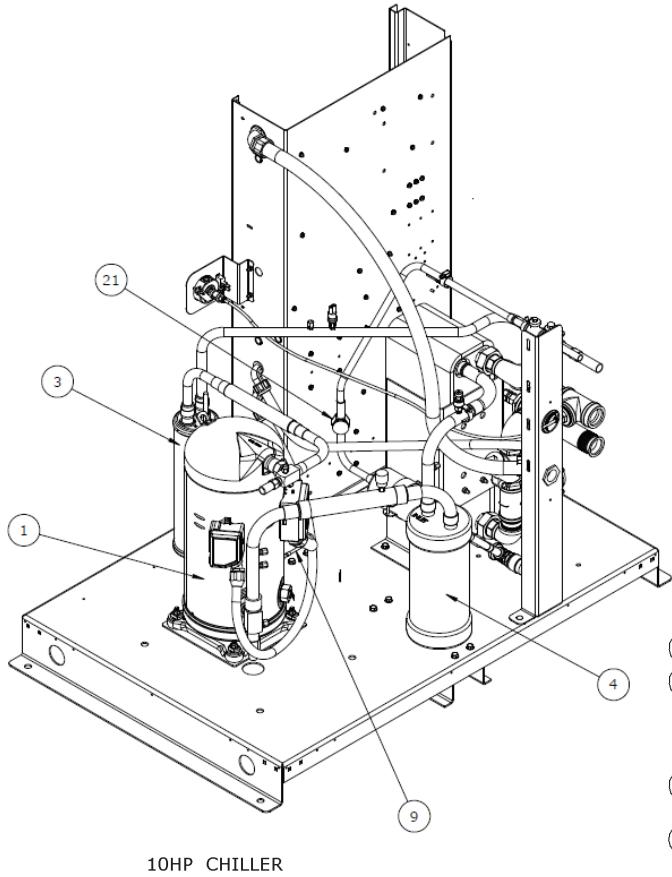
SECTION E PAGE 49
EFFECTIVE: 5/22/12



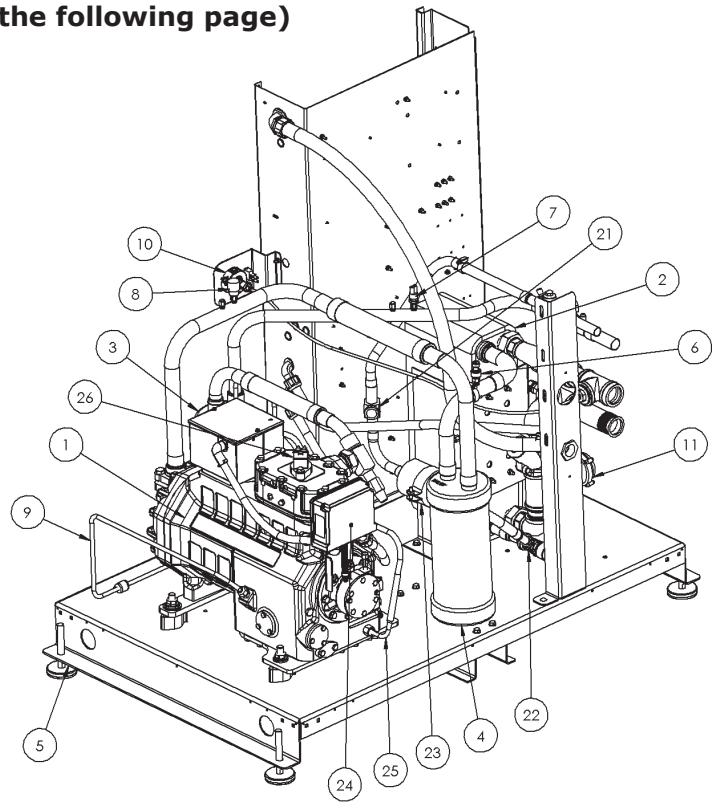
ITEM	PART NO.	Obsolete n/s=Not Shown	DESCRIPTION	QTY REQUIRED (a/r=As Required)	
	4040837		Control Assy,PWR,Glycol,460V	0837	
	4041030		Control Assy,PWR,Glycol,230V	1030	
1	4041010		DISCONNECT,NON-FUSED,30A	1	-
1	4040994		DISCONNECT,NON-FUSED,60A	-	1
2	4040995		SURGE PROTECTOR,MODULAR	1	-
2	4041036		SURGE PROTECTOR,MODULAR,240V	-	1
3	4040996		BLOCK,DISTRIBUTION,POWER	3	3
4	4040997		CLIP,DISTR BLOCK,PANEL MT	4	4
5	4041034		CONTACTOR,18B/24VAC,1NO/1NC	2	2
6	4041007		CIRCUIT BREAKER,4A,250VAC/65VDC	2	2
7	4041006		POWER SUPPLY,550VAC,24VDC	1	1
8	4041012		TRANSFORMER,75VA	1	1
9	4041013		FUSE, 1A,CLASS CC,TRANS DUTY	2	2
10	4041001		FUSE, 3A,CLASS CC,MOTOR DUTY	2	2
11	4040976		FUSE HOLDER,2-POLE,CC	2	2
11	4041018		CONTROLLER,MOTOR,COMB,5-8A	2	-
12	4041035		CONTROLLER,MOTOR,COMB,11-17A	-	2

* The 10th digit of the model number found on the unit data plate designates design sequence.

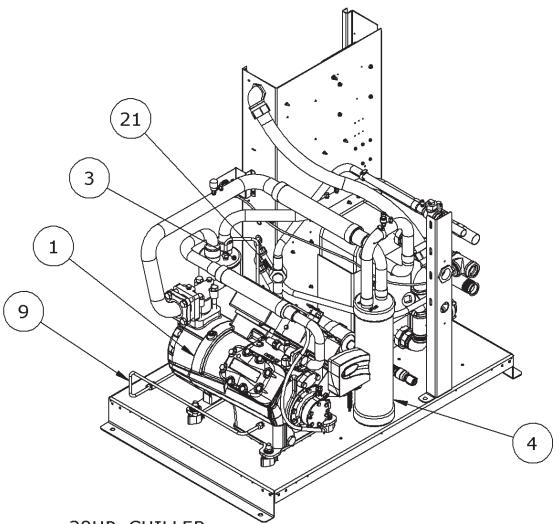
GlacierChill Design Sequence* B
Air-Cooled Chiller Modules
(below parts list on the following page)



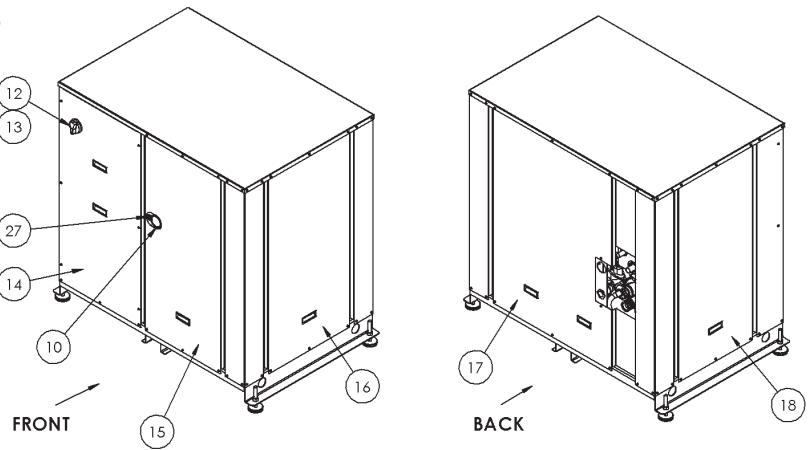
10HP CHILLER



15HP CHILLER

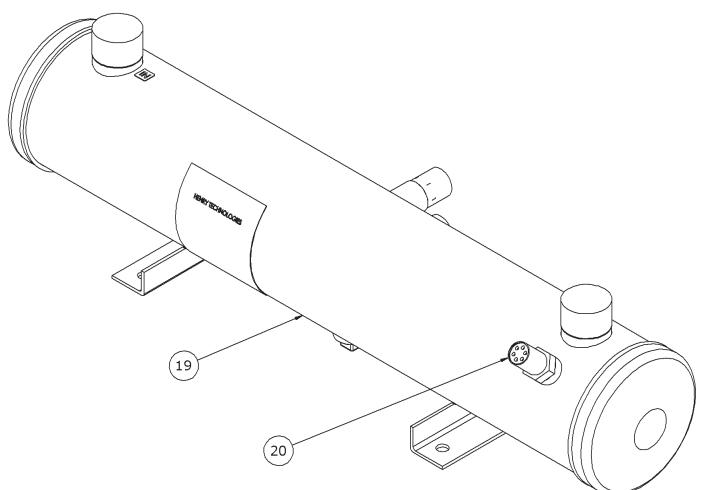


20HP CHILLER



FRONT

BACK



* The 10th digit of the model number found on the unit data plate designates design sequence.

GlacierChill Design Sequence* B

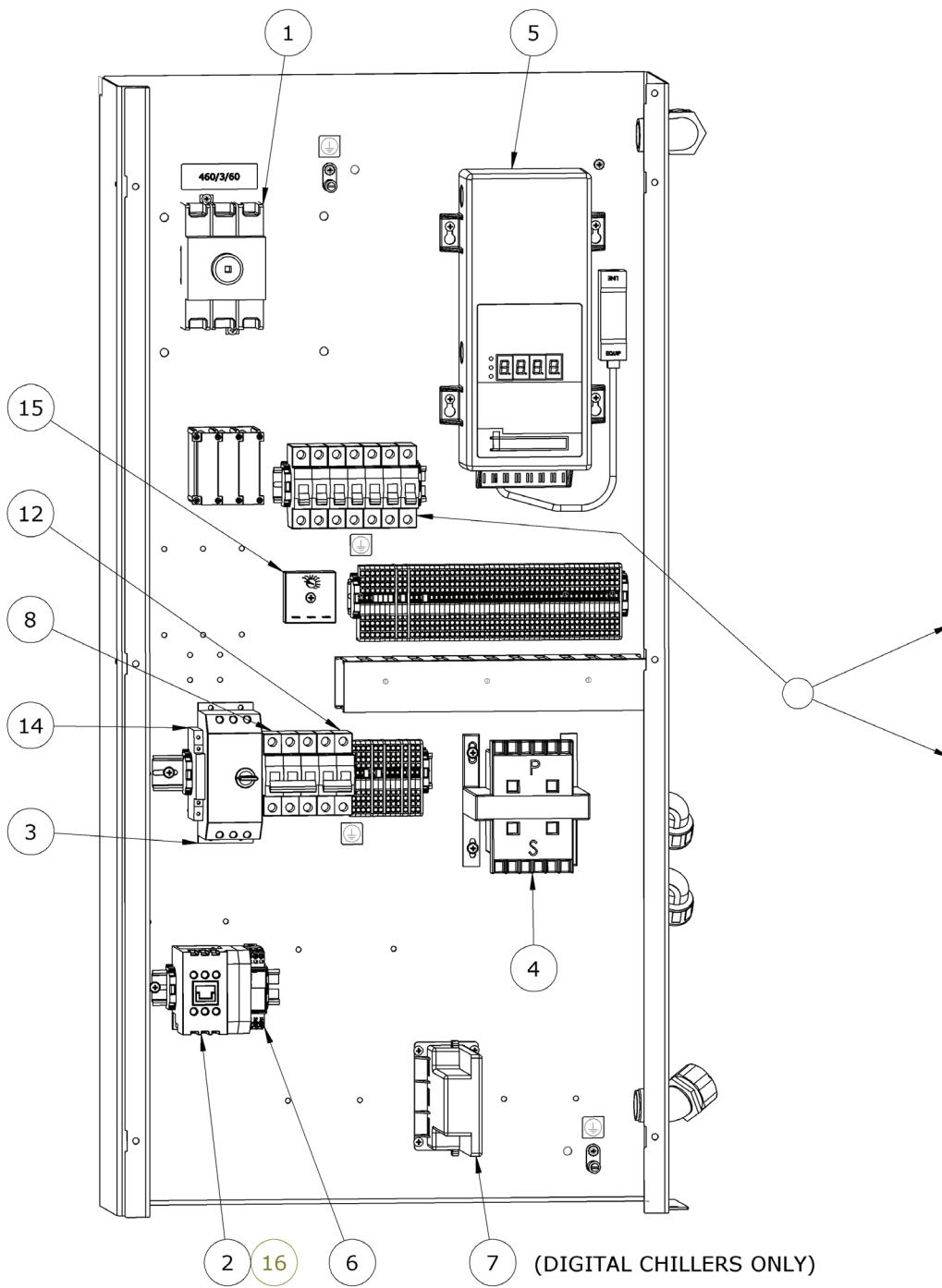
Air-Cooled Chiller Modules (Cont.)

 SECTION **E**
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 EFFECTIVE: **8/13/19**

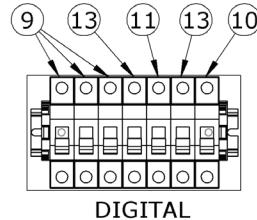
Item	P/N, DIG	P/N, N/D	Description	Quantity Required (DIG = Digital, N/D = Non Digital)									
...	4041100	4041101	Chiller Assy, 10HP, RMT Air, 230V	100	101								
...	4041322	4041323	Chiller Assy, 10HP, RMT Air, 460V			322	323						
...	4041096	4041099	Chiller Assy, 15HP, RMT Air, 230V					096	099				
...	4041320	4041321	Chiller Assy, 15HP, RMT Air, 460V							320	321		
...	4041347	4041348	Chiller Assy, 20HP, RMT Air, 230V							347	348		
...	4041261	4041262	Chiller Assy, 20HP, RMT Air, 460V									261	262
1	All compressors (warranty or otherwise) must be obtained from an authorized Copeland distributor.												
2	4041218		Evaporator Assy, 10HP Chiller	1	1	1	1	-	-	-	-	-	-
	4041190		Evaporator Assy, 15HP Chiller	-	-	-	-	1	1	1	1	-	-
	4041266		Evaporator Assy, 20HP Chiller	-	-	-	-	-	-	-	1	1	1
3	4040255		Oil Separator, 10HP	1	1	1	1	-	-	-	-	-	-
	4041411		Oil Separator, 15HP	-	-	-	-	1	1	1	1	-	-
	4041413		Oil Separator, 20HP	-	-	-	-	-	-	-	1	1	1
4	4041468		Accumulator, 10HP	1	1	1	1	-	-	-	-	-	-
	4041469		Accumulator, 15HP	-	-	-	-	1	1	1	1	-	-
	4041267		Accumulator, 20HP	-	-	-	-	-	-	-	1	1	1
5	4040771		Foot, Leveling, 5/8" x 4	4	4	4	4	4	4	4	4	4	4
6	4041088		Transducer, Pressure, 0-150 psi	1	1	1	1	1	1	1	1	1	1
7	4041097		Switch, Safety, High Pressure	1	1	1	1	1	1	1	1	1	1
8	4041252		Switch, Safety, Low Pressure	1	1	1	1	1	1	1	1	1	1
9	4041237		Tube Assy, Oil, Sep-Com, 10HP Chiller	1	1	1	1	-	-	-	-	-	-
	4041143		Tube Assy, Oil, Sep-Com, 15HP Chiller	-	-	-	-	1	1	1	1	-	-
	4041291		Tube Assy, Oil, Sep-Com, 20HP Chiller	-	-	-	-	-	-	-	1	1	1
10	4040822		Gauge, Pressure, Glycol, 2.5	1	1	1	1	1	1	1	1	1	1
11	4040325		Switch, Flow, NEMA 4	1	1	1	1	1	1	1	1	1	1
12	4040979		Handle, Disconnect	1	1	1	1	1	1	1	1	-	-
	4041382		Handle, Disconnect	-	-	-	-	-	-	-	1	1	-
13	4041246		Shaft, 5mm X 130mm	-	-	1	1	-	-	1	1	-	1
	4041385		Shaft, 10mm X 135mm	-	-	-	-	-	-	-	1	1	-
14	4041075		Door, Control Box, Chiller	1	1	1	1	1	1	1	1	1	1
15	4041076		Front, Enclosure, Chiller	1	1	1	1	1	1	1	1	1	1
16	4041077		Side, Right, Enclosure, Chiller	1	1	1	1	1	1	1	1	1	1
17	4041069		Back Enclosure, Chiller	1	1	1	1	1	1	1	1	1	1
18	4041145		Side, Left, Enclosure, Chiller	1	1	1	1	1	1	1	1	1	1
19	4041430		Receiver	1	1	1	1	1	1	1	1	1	1
20	4041460		Pressure Relief Valve	1	1	1	1	1	1	1	1	1	1
21	4040767		Sight Glass,10HP	1	1	1	1	-	-	-	-	-	-
	4040787		Sight Glass,15HP	-	-	-	-	1	1	1	1	-	-
	4041308		Sight Glass,20HP	-	-	-	-	-	-	-	1	1	1
22	4041416		EEV,SERI-F 5 X 7	1	1	1	1	-	-	-	-	-	-
	4041422		EEV,SERI-G 7 X 9	-	-	-	-	1	1	1	1	-	-
	4041423		EEV,SERI-J 9 X 11	-	-	-	-	-	-	-	1	1	1
23	4041217		FILTER/DRYER, 5/8	1	1	1	1	-	-	-	-	-	-
	4041083		FILTER/DRYER, 7/8	-	-	-	-	1	1	1	1	-	-
	4041431	⊗	FILTER/DRYER, 1-1/8	-	-	-	-	-	-	-	1	1	1
24	4041091		Coresense	-	-	-	-	1	1	1	1	1	1
25	4041438		Crankcase Heater	-	-	-	-	1	1	1	1	1	1
	4041437		Crankcase Heater	1	1	1	1	-	-	-	-	-	-
26	4040313		Coil, Digital Compressor, 15/20HP	-	-	-	-	1	-	1	-	1	-
	4041108		Coil, Digital Compressor, 10HP	1	-	1	-	-	-	-	-	-	-
27	4041283		Switch, Rocker, 20A	1	1	1	1	1	1	1	1	1	1

* The 10th digit of the model number found on the unit data plate designates design sequence.

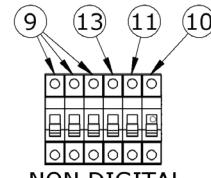
**Control Box ASSY GlacierChill
Design Sequence* B Chillers**



**15 AND 20 HP
UPPER BREAKERS**

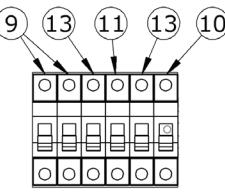


DIGITAL

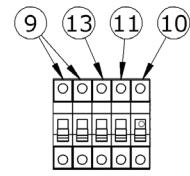


NON DIGITAL

**10 HP
UPPER BREAKERS**



DIGITAL



NON DIGITAL

* The 10th digit of the model number found on the unit data plate designates design sequence.

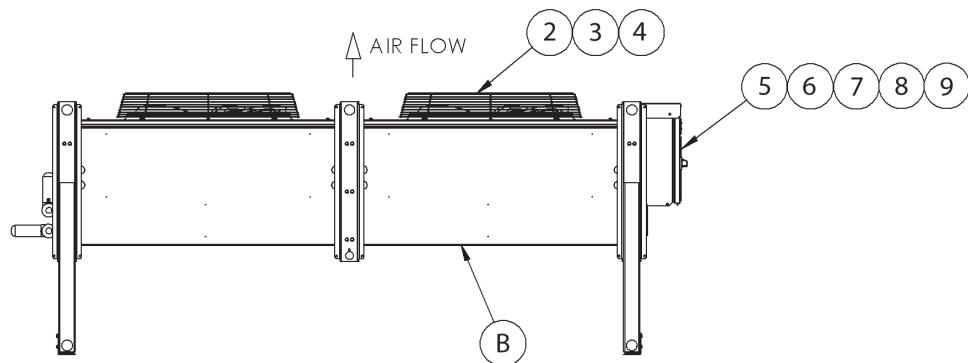
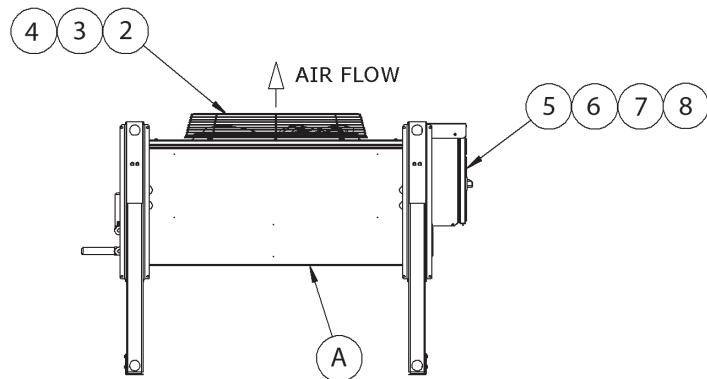
Control Box ASSY GlacierChill
Design Sequence* B Chillers (Cont.)

SECTION E	PAGE 53
EFFECTIVE: 3/31/15	

Item	P/N, DIG	P/N, N/D	Description	Quantity Required (DIG = Digital, N/D = Non Digital)																			
				250		255		326		357		205		241		330		331		349		350	
	4041250	4041255	Control Assy, 10HP, 230V	250	255																		
	4041326	4041357	Control Assy, 10HP, 460V			326	357																
	4041205	4041241	Control Assy, 15HP, 230V					205	241														
	4041330	4041331	Control Assy, 15HP, 460V					330	331														
	4041349	4041350	Control Assy, 20HP, 230V							349	350												
	4041293	4041294	Control Assy, 20HP, 460V									293	294										
1	4041023		Disconnect, Non-Fused, 10HP, 230V, 100A	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4040994		Disconnect, Non-Fused, 10HP, 460V, 60A	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4041023		Disconnect, Non-Fused, 15HP, 230V, 100A	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4040994		Disconnect, Non-Fused, 15HP, 460V, 60A	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	
	4041378		Disconnect, Non-Fused, 20HP, 230V, 200A	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	
	4041023		Disconnect, Non-Fused, 20HP, 460V, 100A	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
2	4041046		Contactor, 10HP, 230V	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4040998		Contactor, 10HP, 460V	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4041044		Contactor, 15HP, 230V	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4041027		Contactor, 15HP, 460V	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	
	4041356		Contactor, 20HP, 230V	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	
	4041044		Contactor, 20HP, 460V	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
3	4041048		Controller, Motor, 10HP, 230V, 34-50A	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4040999		Controller, Motor, 10HP, 460V, 18-26A	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4041022		Controller, Motor, 15HP, 230V, 45-63A	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4041045		Controller, Motor, 15HP, 460V, 22-32A	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	
	4041357		Controller, Motor, 20HP, 230V, 95-130A	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	
	4041022		Controller, Motor, 20HP, 460V, 45-63A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	
4	4041095		Transformer, Chiller Modules, 230/460V, 250VA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5	4041085		Controller, KE2, Chiller Modules	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6	4041512		3-Phase Monitoring Relay	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	4041084		Controller, Digital (Digital Chillers Only)	1	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	
	4041470		Controller, Digital (Digital Chillers Only)	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	
8	4041451		Circuit Breaker, NB1-B1-3P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9	4041453		Circuit Breaker, NB1-B1-1P	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
10	4041454		Circuit Breaker, NB1-D1-1P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11	4041455		Circuit Breaker, NB1-D4-1P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12	4041456		Circuit Breaker, NB1-D2-2P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13	4041457		Circuit Breaker, NB1-D1-1P	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	1	
14	4041459		Switch, AUX, MMS-LA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15	4041481		Switch, Bypass Timer	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16	4041508		Contactor, Aux., 1N.O. 1N.C.	a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r	a/r		

* The 10th digit of the model number found on the unit data plate designates design sequence.

**Air-Cooled Condensers
GlacierChill Design Sequence* B**



Item	P/N, DIG	⊗=Obsolete n/s=Not Shown	Description	Quantity Required						
A	4041171		Condenser, Air 230V, 10HP, Chiller	171						
	4041172		Condenser, Air 460V, 10HP, Chiller	172						
	4041173		Condenser, Air 230V,15HP, Chiller		173					
	4041174		Condenser, Air 460V,15HP, Chiller		174					
B	4041175		Condenser, Air 230V,20HP, Chiller		175					
	4041176		Condenser, Air 460V,20HP, Chiller		176					
2	4041388		Motor, Fan, 208-230/460V	1	1	1	1	2	2	
3	4041389		Blade, Fan	1	1	1	1	2	2	
4	4041390		Guard, Fan	1	1	1	1	2	2	
5	4041477		Transducer, Pressure	1	1	1	1	1	1	
6	4041478		CTRL, Pressure	1	1	1	1	1	1	
7	4041467		Contactor	1	1	1	1	2	2	
8	4041479		Harness,Wiring	1	1	1	1	1	1	
9	4041480		CTRL, Slave	-	-	-	-	1	1	

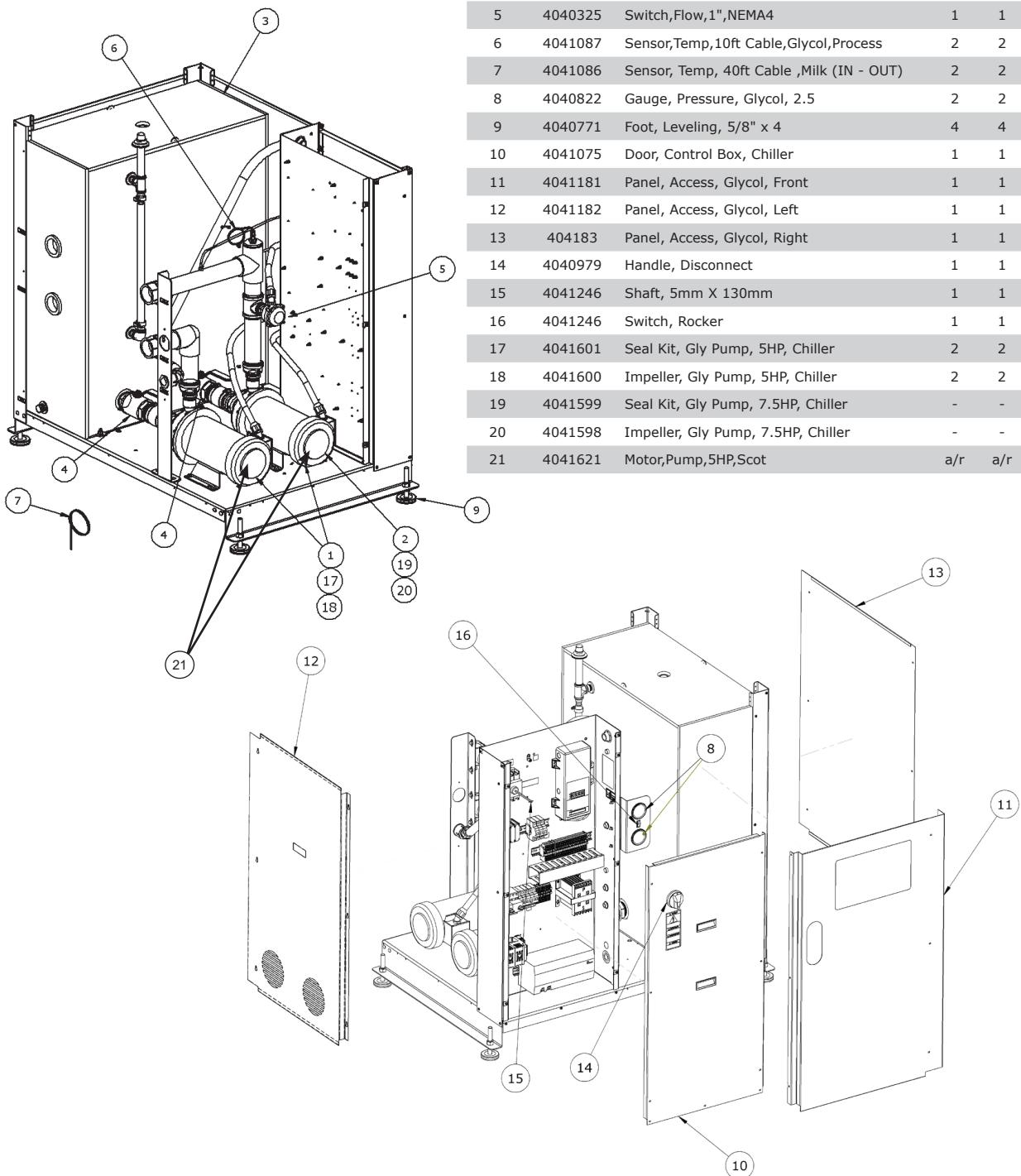
* The 10th digit of the model number found on the unit data plate designates design sequence.

GlacierChill Design Sequence* B

Glycol Modules

SECTION E	PAGE 55
EFFECTIVE: 4/9/20	

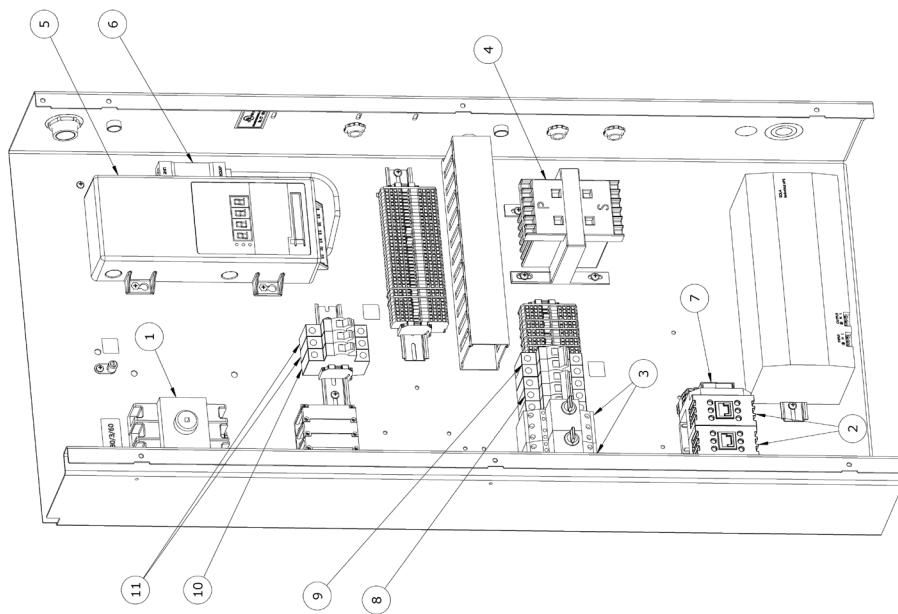
Item	P/N	Description	Quantity Required			
...	4041160	Glycol Module, 10 - 15HP Chillers, 230V	160			
...	4041161	Glycol Module, 10 - 15HP Chillers, 460V	161			
...	4041304	Glycol Module, 20HP Chiller, 230V	304			
...	4041302	Glycol, 20HP Chiller, 460V	302			
1	4040807	Pump, 5HP 230V/460V,60Hz,3PH	2	2	1	1
2	4041153	Pump, 7.5HP 230V/460V,60Hz,3PH	-	-	1	1
3	4041440	Tank Assy, Glycol, SS	1	1	1	1
4	4041448	Valve, Ball, Brass, 2.0	2	2	2	2
5	4040325	Switch,Flow,1",NEMA4	1	1	1	1
6	4041087	Sensor,Temp,10ft Cable,Glycol,Process	2	2	2	2
7	4041086	Sensor, Temp, 40ft Cable ,Milk (IN - OUT)	2	2	2	2
8	4040822	Gauge, Pressure, Glycol, 2.5	2	2	2	2
9	4040771	Foot, Leveling, 5/8" x 4	4	4	4	4
10	4041075	Door, Control Box, Chiller	1	1	1	1
11	4041181	Panel, Access, Glycol, Front	1	1	1	1
12	4041182	Panel, Access, Glycol, Left	1	1	1	1
13	404183	Panel, Access, Glycol, Right	1	1	1	1
14	4040979	Handle, Disconnect	1	1	1	1
15	4041246	Shaft, 5mm X 130mm	1	1	1	1
16	4041246	Switch, Rocker	1	1	1	1
17	4041601	Seal Kit, Gly Pump, 5HP, Chiller	2	2	1	1
18	4041600	Impeller, Gly Pump, 5HP, Chiller	2	2	1	1
19	4041599	Seal Kit, Gly Pump, 7.5HP, Chiller	-	-	1	1
20	4041598	Impeller, Gly Pump, 7.5HP, Chiller	-	-	1	1
21	4041621	Motor,Pump,5HP,Scot	a/r	a/r	a/r	a/r



* The 10th digit of the model number found on the unit data plate designates design sequence.

Control Box ASSY Glycol Modules GlacierChill Design Sequence* B

Item	P/N	Description	Quantity Required
...	4041210	Control Assy, 5/5HP, Glycol, 230V	210
...	4041301	Control Assy, 5/5HP, Glycol, 460V	301
...	4041305	Control Assy, 5/7.5HP, Glycol, 230V	305
...	4041303	Control Assy, 5/7.5HP, Glycol, 460V	303
1	4040994	Disconnect, Non-Fused, Glycol, 230V, 60A	1
	4041010	Disconnect, Non-Fused, Glycol, 460V, 30A	-
2	4040998	Contactor, 32A, 230V	2
3	4041035	Controller, Motor, 5/5HP, 230V, 11-17A	2
	4041018	Controller, Motor, 5/5HP, 460V, 5-8A	-
	4041377	Controller, Motor, 5/7.5HP, 230V, 14-22A	-
	4041314	Controller, Motor, 5/7.5HP, 460V, 6-10A	-
4	4041095	Transformer/Glycol Module, 230/460V, 250VA	1
5	4041164	Controller, KE2, Glycol Module	1
6	3561432	Surge Suppressor, Ethernet	1
7	4041512	3-Phase Monitoring Relay	1
8	4041451	Circuit Breaker, NB1-B1-3P	1
9	4041456	Circuit Breaker, NB1-D2-2P	1
10	4041453	Circuit Breaker, NB1-B1-1P	1
11	4041454	Circuit Breaker, NB1-D2-1P	2
	4041457	Circuit Breaker, NB1-D1-1P	-
12	4041345	Router/Wireless, 10 Port	1
13	1912510	Battery, 120V, Lead Acid	1



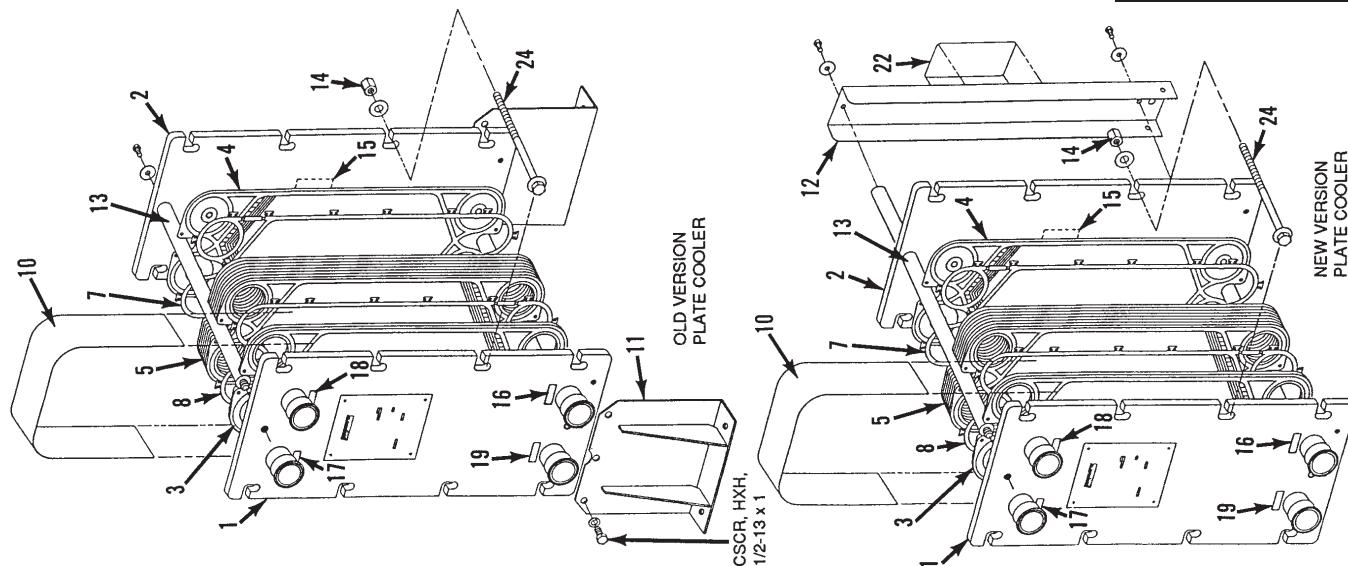
CONTROL BOX 230V & 460V



* The 10th digit of the model number found on the unit data plate designates design sequence.

Dari-Kool Plate Coolers

SECTION **E** PAGE **57**
 EFFECTIVE: 11/28/06

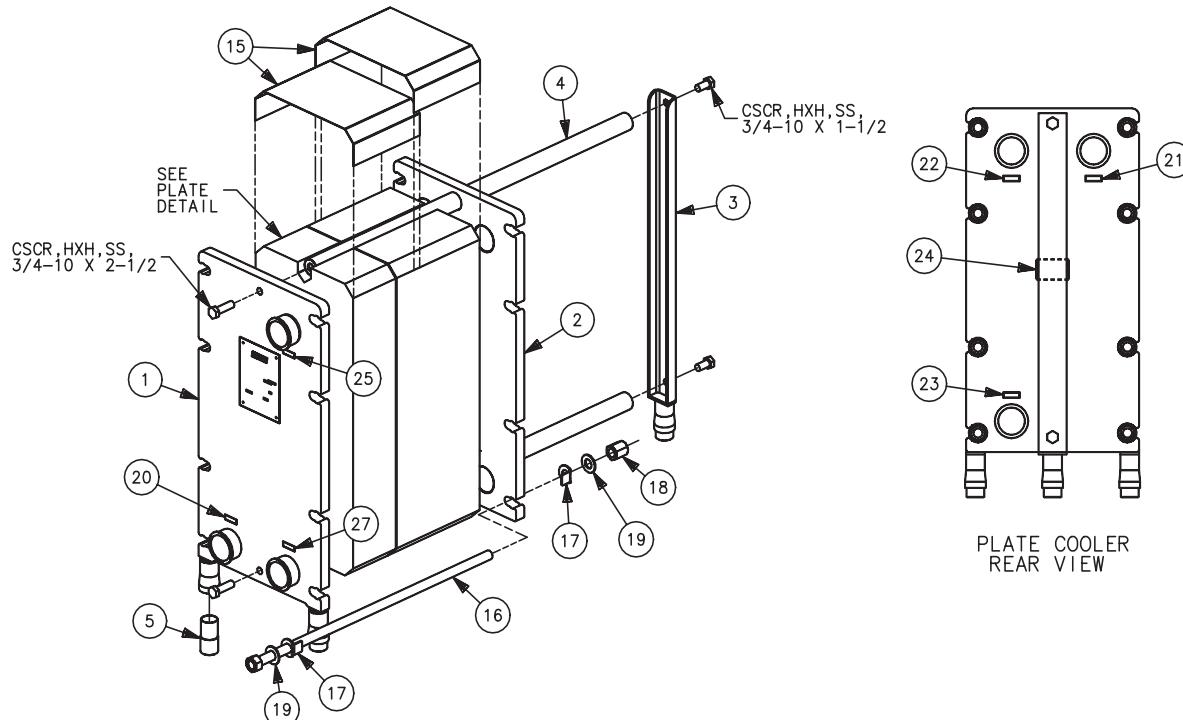
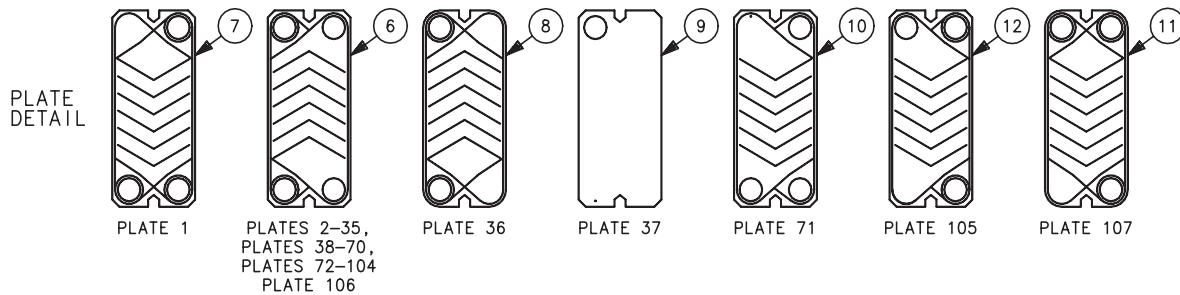


ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (n/s=NOT SHOWN (a/r=AS REQUIRED)
1	4019527	Plate Cooler, DK, 1PSC30 (shown)	690
1	40195219	Plate Cooler, DK, 1PSC50	691
1	4019513	Plate Cooler, DK, 80S	708
2	4019528	Plate Cooler, DK, 3PSC74	439
2	4020441	Plate Cooler, DK, 3PDC74	692
3	4019509	Plate Cooler, DK, 1PSC40	054
3	4020438	Plate Cooler, DK, 3PSC50	436
4	4020440	Plate Cooler, DK, 3PSC98	440
4	4020435	Plate Cooler, DK, 3PDC50	035
4	4020437	Plate Cooler, DK, 3PDC98	437
5	4019507	Plate Assy, 4 Hole, Cool (Includes item 7)	14
5	4019508	Plate Assy, 4 Hole, Milk (Includes item 8)	14
6	4019500 ¹	n/s Plate, HE, Blank	1
6a	4020452 ¹	n/s Plate, PHX, 3 Hle, w/Drn	1
7	4019501 ²	n/s Gasket, Heat Exch, Coolant	1
8	4019504	Gasket, Heat Exch, Milk	16
9	4019536	n/s Gasket, Heat Exch, Full	15
10	4019547	Cover, Plate Cooler, 30S	1
10	4019548	Cover, Plate Cooler, 50S	1
10	4020062	Cover, Plate Cooler, 40S	1
11	4019546	Bracket Assy, Plate Cooler	2
12	4020029	Bracket Support, Plate Cooler	2
13	4019519	Rod, Support, HE, 22 In	2
14	4019516	Rod, Support, HE, 30 In	2
15	4019543	Nut, Hex, Brass, 5/8-11 x 1.00Lg	8
15	4019540	Label, Caution, Plate Cooler	1
16	4019539	Label, Coolant Out	1
17	4019539	Label, Coolant In	1
18	4019538	Label, Milk Out	1
19	4019537	Label, Milk In	1
20	4020148	n/s Label, Water In	1
21	4020149	n/s Label, Water Out	1
22	4013600	Label, Dari-Kool, 3-1/4 x 7	1
23	4020339	n/s Plug, Int, Rbr, 2.00	1
24	4019517	CSCR, HXH, SS, 5/8-11 x 12	8
24	4020621	CSCR, HXH, SS, 5/8-11 x 23	8
25	4020035	n/s Web, Sleeve, Pistic, .50-.75 OD	8

Note

1. Represents plate 30 on Cooler Assy 4019690, plate 50 on Cooler Assy 4019691, plate 80 on Cooler Assy 4019708, plates 26 & 49 on Cooler Assy 4020439, plate 49 on Cooler Assy 4020436, plate 40 on Cooler Assy 4020054, plates 18 & 33 on Cooler Assy 4020438, plates 34 & 65 on Cooler Assy 4020440, plate 33 on Cooler Assy 4020435, plate 65 on Cooler Assy 4020437.
2. Represents plate 30 on Cooler Assy 4019692, plate 26 on Cooler Assy 4020436, plate 18 on Cooler Assy 4020435, plate 34 on Cooler Assy 4020437.
3. When replacing plate coolers with newer models, some piping changes are required.
4. Placement of inlet/outlet labels (items 17-21) is different for Cooler Assy's 4020439 and 4020436. Refer to cooler for correct location.

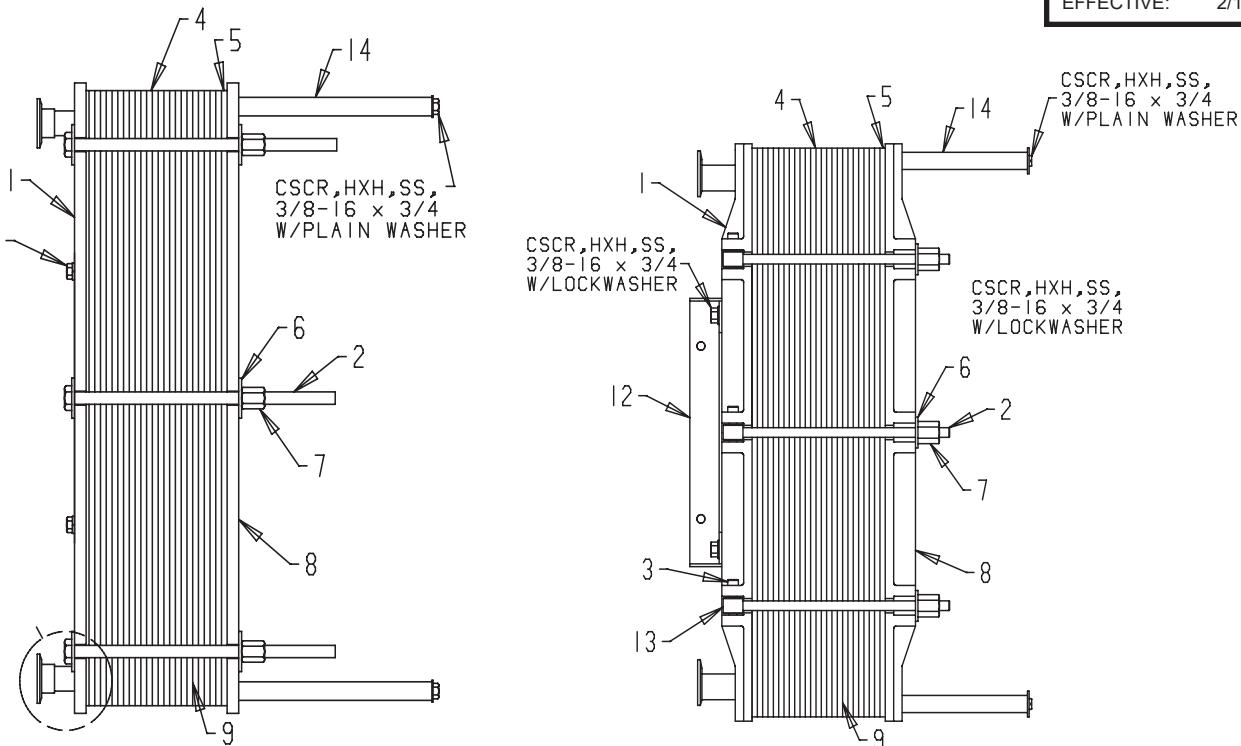
R-Series Dari-Kool Plate Coolers



Item	Part No.	Description	Quantity Required
	4024603	⊗ Plate Cooler, R, R3D106	4603
1	4024611	⊗ Frame Assy, Front, 3-Inlet	1
2	4024621	⊗ Frame Assy, Rear, 3-Inlet	1
3	4024614	⊗ Support Assy, Plate Cooler	1
4	4024619	⊗ Bar, Carrying	2
5	4024618	⊗ Leg Assy, SS, 3.75 LG	4
6	4024623	⊗ Plate Assy, R, Flow Plate	101
7	4024624	⊗ Plate Assy, R, End Plate	1
8	4024625	⊗ Plate Assy, R, Transition Plate	1
9	4024626	⊗ Divider Plate, Plate Cooler	1
10	4024627	⊗ Plate Assy, R, Stop Plate	1
11	4024628	⊗ Plate Assy, R, Transition Plate	1
12	4024629	⊗ Plate Assy, R, Stop Plate	1
15	4024054	⊗ Cover, Plate Cooler, R	2
16	4024052	⊗ Bolt Assy, Tie, Plate Cooler	8
17	4024050	⊗ Washer, Retaining, Plate Cooler	16
18	4024049	⊗ Nut, Hex, Brs, 1-14 UNS x 1.75 Lg	8
19	1208394	Washer, Plain, SS, 1.00	16
20	4019537	⊗ Label, Milk In	1
21	4019538	⊗ Label, Milk Out	1
22	4019539	⊗ Label, Coolant In	1
23	4019540	⊗ Label, Coolant Out	1
24	4019543	⊗ Label, Caution, Plate Cooler	1
25	4020148	⊗ Label, Water In	1
26	4020149	⊗ Label, Water Out	1

Models M800, M1S44, M1S34, M1S24, M3D79 & M3S79 Plate Coolers

SECTION E PAGE 59
EFFECTIVE: 2/19/13



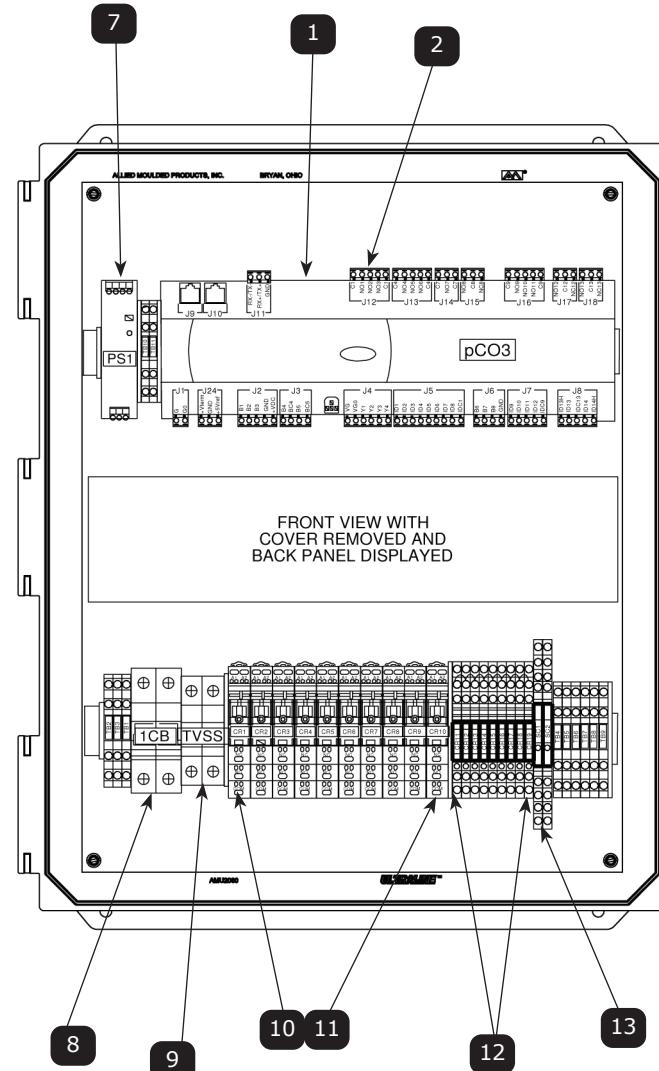
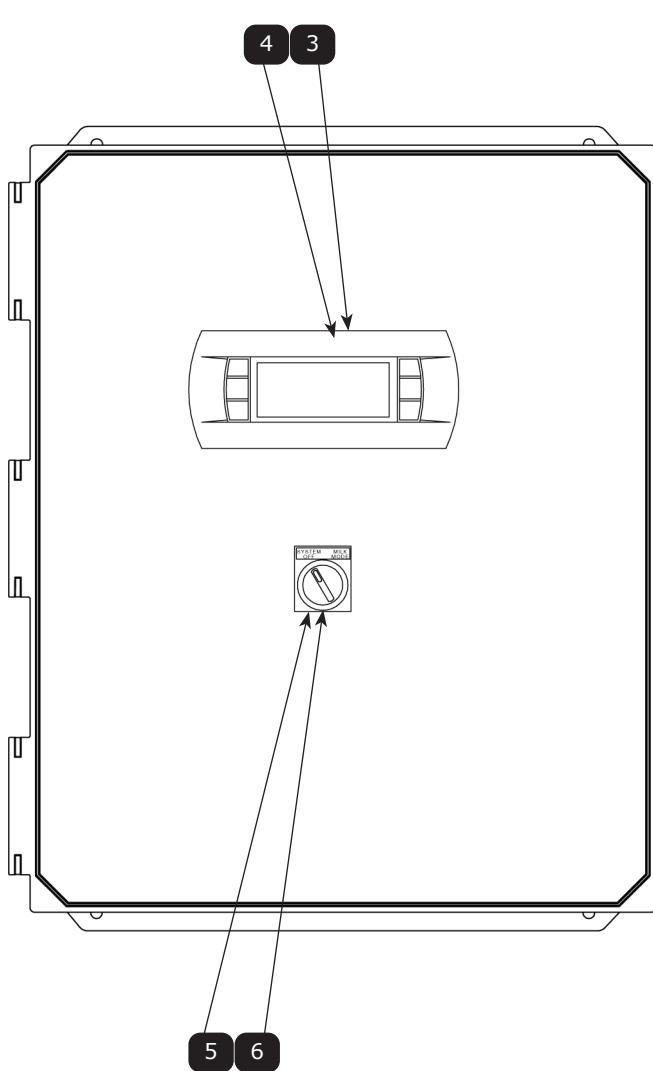
Item	Part No.	<small>⊗=OBSOLETE n/s=NOT SHOWN</small>	Description	QTY REQUIRED (a/r=As Required)						
				1	2	3	4	5	6	7
4018643	⊗		Cooler, Plate, M800, 44 Plate	643						
4022086	⊗		Cooler, Plate, M1S44		086					
4022087	⊗		Cooler, Plate, M1S34			087				
4022088	⊗		Cooler, Plate, M1S24				088			
4022089	⊗		Cooler, Plate, M3D79					089		
4022437	⊗		Cooler, Plate, M3S79						437	
1	4018649	⊗	Plate, End, w/1-1/2" Ferrules	1	-	-	-	-	-	-
	4022095	⊗	Frame Assy, Front, 4-Hole	-	1	1	1	-	-	-
	4022107	⊗	Frame Assy, Front, 3-Hole, MS	-	-	-	-	-	1	1
2	4018650	⊗	Bolt, Swing, Plate Cooler	6	-	-	-	-	-	-
	4019988	⊗	Cscr, Hxh, SS, 1/2-13 x 11.5	-	6	6	6	-	-	-
	4019989	⊗	Cscr, Hxh, SS, 1/2-13 x 15	-	-	-	-	6	6	
3	4018796	⊗	Pin, Hinge, Swing Bolt	6	-	-	-	-	-	-
4	4018644	⊗	Plate, Cooler, 4-Hole, w/Gasket	43	43	33	23	75	75	
	4018645	⊗	Plate, Cooler, No-Hole, w/Gasket	1	1	1	1	-	-	
5	4022124	⊗	Plate, HE, 3-Hole, w/Gasket & Dmn (Represents end plate)	-	-	-	-	1	1	
6	4018652	⊗	Wsh, SS, .500 x 1.50 x .081	6	-	-	-	-	-	-
	4021047	⊗	Wsh, SS, .522 x 1.12 x .125	-	12	12	12	12	12	12
7	4018651	⊗	Nut, Swing, Plate Cooler	6	-	-	-	-	-	-
	4019975	⊗	Nut, Hex, Brass, 1/2-13 x 1.00 Lg	-	6	6	6	6	6	6
8	4018648	⊗	Plate, End, Blank	1	-	-	-	-	-	-
	4022093	⊗	Frame, HE, Blank Rear	-	1	1	1	-	-	-
9	4018646	⊗	Frame Assy, Rear, 3-Hole, MS	-	-	-	-	1	1	
10	4013714	⊗	Gasket, Sealing, Plate Cooler	44	44	34	24	79	79	
	4022861 ¹	n/s	Gasket, Plate Cooler, .995 ID	2	4	4	4	3	3	
	4022861 ²	n/s	Gasket, Plate Cooler, .748 ID	2	-	-	-	-	-	
11	4013730	n/s	Adhesive, Gasket (Part No. represents 1/2 pint can)	a/r	a/r	a/r	a/r	a/r	a/r	
12	4019489	⊗	Bracket, Mtg, M800 Plate Cooler	1	1	1	1	1	1	
13	4019919	⊗	Block, Pivot	6	-	-	-	-	-	
14	4019996	⊗	Rod, Support, HE, OEM, PR51/DE57	2	2	2	2	-	-	
	4019997	⊗	Rod, Support, HE, OEM, DR69/EC80	-	-	-	-	2	2	
15	4019537	⊗	n/s Label, Milk In	-	1	1	1	1	1	
16	4019538	⊗	n/s Label, Milk Out	-	1	1	1	1	1	
17	4019539	⊗	n/s Label, Coolant In	-	1	1	1	1	1	
18	4019540	⊗	n/s Label, Coolant Out	-	1	1	1	1	1	
19	4019543	⊗	n/s Label, Caution, Plate Cooler	-	1	1	1	1	1	
20	4022099 ²	n/s	Plate, HE, 3-Hole, w/Gasket	-	-	-	-	1	1	
21	4022109 ³	n/s	Plate, HE, 1-Hole, w/Gasket & Vent	-	-	-	-	-	1	
	4022439 ³	n/s	Plate, HE, 3-Hole, w/Gskt & Drain	-	-	-	-	-	1	
22	4022112 ⁴	n/s	Plate, HE, 3-Hole, w/Gasket & Vent	-	-	-	-	1	1	

Note

- All plate numbers listed include 1 gasket, item 9.
- Represents plate number 1 on 4022089 & 4022437.
- Represents plate number 27 on 4022089.
- Represents plate number 53 on 4022089 & 4022437.
- Represents plate number 27 on 4022437.
- Use .995 ID gasket on milk circuit inlet & outlet, use .748 ID gasket on water/coolant circuit inlet & outlet.

ChillGuard™ Control Assembly

ITEM	PART NO.	⊗=Obsolete n/s=Not Shown	DESCRIPTION	QTY REQUIRED (a/r=As Required)	
				Control Assy, ChillGuard	0688
1	4040689		Controller, PCO Medium, Carel	1	
2	4040690		Terminal Blks, PCO3 Medium, Carel	1	
3	4040691		HMI, PGD1, Carel	1	
4	4040692	n/s	Cable, HMI, Carel, 4.9 ft	1	
5	4040698		Switch, 2-Position, 22mm	1	
6	4040699	n/s	Contact Block, Switch, 2 No.	1	
7	4040696		Power Supply, 100-24VAC, 24VDC	1	
8	4040695		Breaker, Circuit, 2-Pole, 6A	1	
9	3561554		Surge Suppressor, Xient Volt.	1	
10	4040077		Relay, 24VDC, 2/Manual Override	10	
11	4029151		Base, Override, Relay	10	
12	4040700		Relay, 120 VAC	9	
13	3560789	⊗	Transducer, Temp, Rtd to V or I	2	
14	3561351	n/s	Switch, Current, Split-Core, N, 0 (1 switch required for each compressor and pump)	a/r	
15	3560811	n/s	Sensor, Temperature	2	



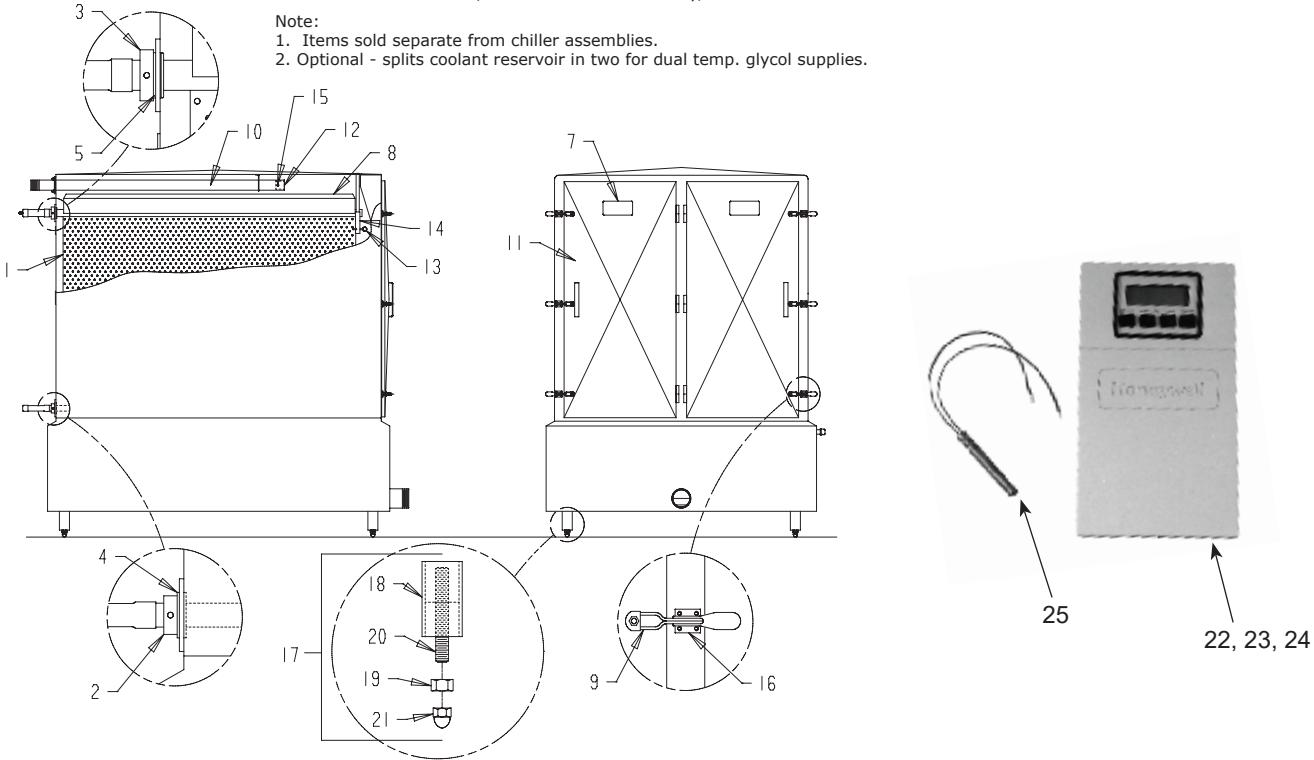
Falling Film Chiller Assemblies using 12 Plate Cabinets 6 thru 12 Plate

SECTION E PAGE 61
EFFECTIVE: 1/16/19

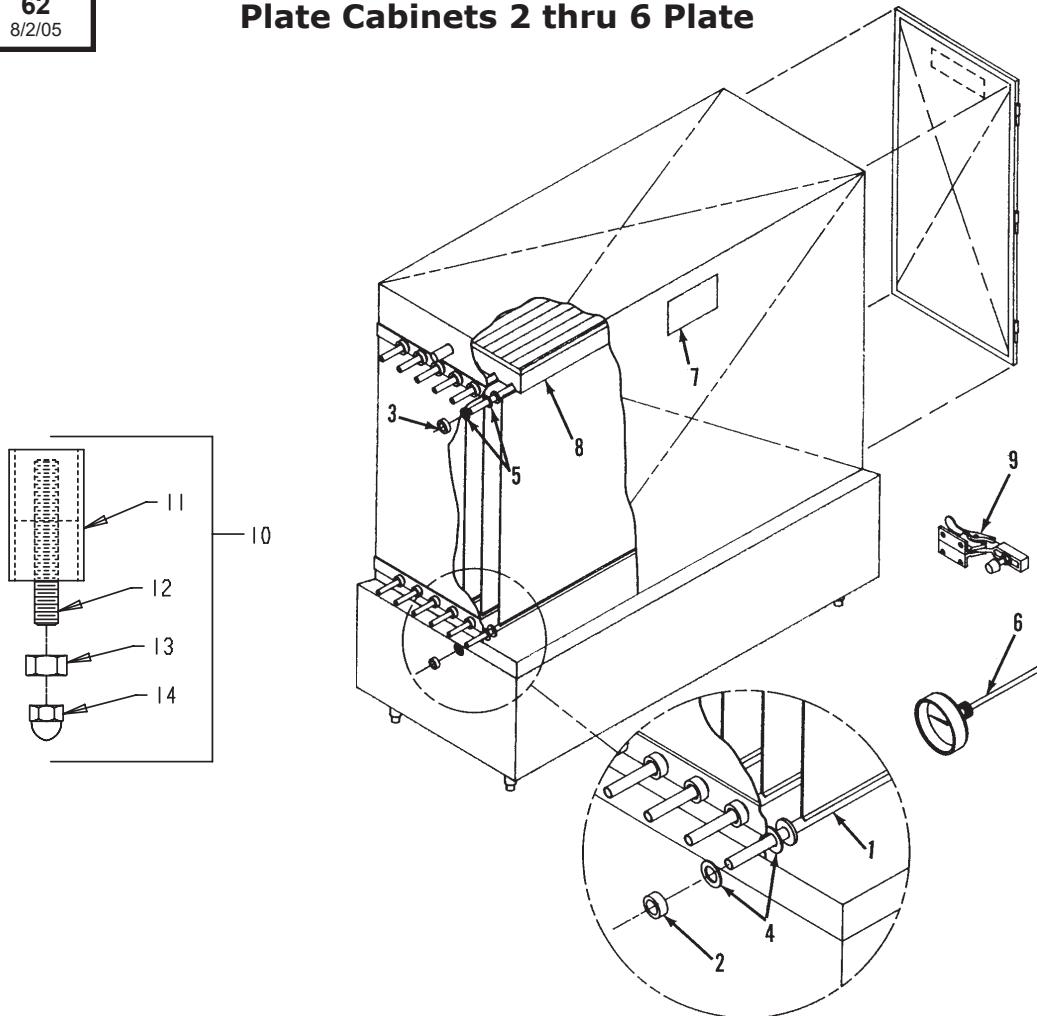
Item	Part No.	⊗=OBsolete n/s=NOT SHOWN	Description	QTY REQUIRED (a/r=As Required)						
	4021830		Chiller Assy, 6 Plate, 280	1830						
	4021831	⊗	Chiller Assy, 7 Plate, 280	1831						
	4021618		Chiller Assy, 8 Plate, 280	1618						
	4021832	⊗	Chiller Assy, 9 Plate, 280	1832						
	4021619		Chiller Assy, 10 Plate, 280	1619						
	4021833	⊗	Chiller Assy, 11 Plate, 280	1833						
	4021620		Chiller Assy, 12 Plate, 280	1620						
1	4022869		Kit, Plate Assy, Evap, Chiller, 5T (Includes 2 thru 5)	6	7	8	9	10	11	12
2	4020020		Collar Assy, .75 x 1.38 x 2.25	6	7	8	9	10	11	12
3	4020021		Collar Assy, .75 x 1.69 x 2.75	6	7	8	9	10	11	12
4	4020018		Wshr, Nprn, 1.25 x 2.50 x .12	12	14	16	18	20	22	24
5	4020019		Wshr, Nprn, 1.50 x 2.50 x .12	12	14	16	18	20	22	24
6	4021251	n/s	Label, Nitrogen Charged	6	7	8	9	10	11	12
7	4013600		Label, Dari-Kool, 3-1/4 x 7	2	2	2	2	2	2	2
8	4020026		Trough Assy, 6 Plate	2	2	2	2	2	2	2
9	4020028		Clamp, Toggle, Horizontal	6	6	6	6	6	6	6
10	4021442	⊗	Distribution Pipe Assy	2	2	2	2	2	2	2
11	4021179		Door Assy, Film Chiller	2	2	2	2	2	2	2
12	4021385		Cap Assy, End, Dist Pipe	2	2	2	2	2	2	2
13	4021286		Pin, Clevis, 1/4 Dia, 1.2 Grip	4	4	4	4	4	4	4
14	4021194		Support Assy, Plate, Chill Cab	2	2	2	2	2	2	2
15	4021288		Pin, Clevis, 1/4 Dia, 30 Grip	2	2	2	2	2	2	2
16	4021259		Bracket, Latch, Chill Cabinet	6	6	6	6	6	6	6
17	4021262		Leg Assy, Chil Cabinet (Includes items 18 thru 21)	4	4	4	4	4	4	4
18	4021282		Body Assy, Leg, Chill Cabinet	4	4	4	4	4	4	4
19	1248358		Nut, Hex, Jam, SS, 3/4-10	4	4	4	4	4	4	4
20	4021283		Rod, Threaded, SS, 3/4-10 x 5.5 Lg	4	4	4	4	4	4	4
21	1207358		Nut, Cap, SS, 3/4-10	4	4	4	4	4	4	4
22	4021775 ¹	⊗	Controller, Temp, 1 PRB/1 Rly	a/r	a/r	a/r	a/r	a/r	a/r	a/r
23	4021773 ¹	⊗	Controller, Temp, 1 PRB/4 Rly	a/r	a/r	a/r	a/r	a/r	a/r	a/r
24	4021774 ¹	⊗	Controller, Temp, 2 PRB/4 Rly	a/r	a/r	a/r	a/r	a/r	a/r	a/r
25	4021841 ¹		Sensor Assy, Elec Temp Cont	a/r	a/r	a/r	a/r	a/r	a/r	a/r
26	4021199	n/s	Door Gasket, Silicone, 1 x 2	15	15	15	15	15	15	15
27	4023653 ²	n/s	Partition Assy, Chill Cabinet	1	1	1	1	1	1	1

Note:

1. Items sold separate from chiller assemblies.
2. Optional - splits coolant reservoir in two for dual temp. glycol supplies.



Falling Film Chiller Assemblies using 6 Plate Cabinets 2 thru 6 Plate

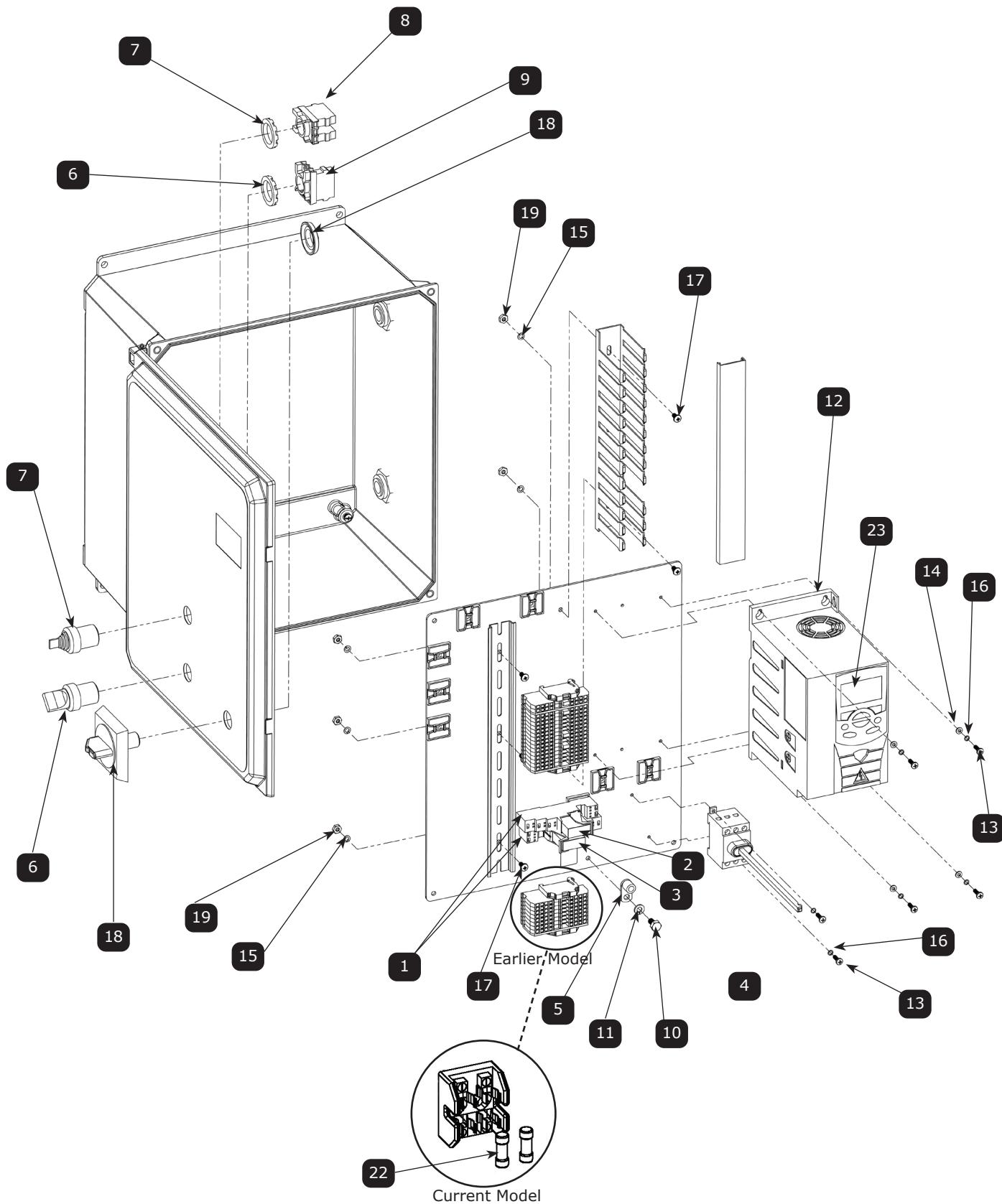


Item	Part No.	QTY REQUIRED (a/r=As Required)						
			⊗ = OBSOLETE	n/s = NOT SHOWN				
4019878		878						
4019879		879						
4019880		880						
4019881		881						
4019882		882						
1	4022869	Kit, Plate Assy, Evap, Chiller, 5T <i>(Includes items 2 thru 5)</i>	2	3	4	5	6	
2	4020020	Collar, SS, .75 x 1.38 x 2.12	2	3	4	5	6	
3	4020021	Collar, SS, .75 x 1.69 x 2.81	2	3	4	5	6	
4	4020018	Wshtr, Nprn, 1.25 x 2.50 x .12	4	6	8	10	12	
5	4020019	Wshtr, Nprn, 1.50 x 2.50 x .12	4	6	8	10	12	
6	4019621	⊗ Thermometer, Bi-Metal	1	1	1	1	1	
7	4013600	Label, Dari-Kool, 3-1/4 x 7	2	2	2	2	2	
8	4020022	⊗ Trough Assy, 2 Plate	1	-	-	-	-	
	4020023	⊗ Trough Assy, 3 Plate	-	1	-	-	-	
	4020024	⊗ Trough Assy, 4 Plate	-	-	1	-	-	
	4020025	⊗ Trough Assy, 5 Plate	-	-	-	1	-	
	4020026	Trough Assy, 6 Plate	-	-	-	-	1	
9	4020028	Clamp, Toggle, Horizontal	3	3	3	3	3	
10	4021262	Leg Assy, Chill Cabinet <i>(Includes items 11 thru 14)</i>	4	4	4	4	4	
11	4021282	Body Assy, Leg, Chill Cabinet	4	4	4	4	4	
12	1248358	Nut, Hex, Jam, SS, 3/4-10	4	4	4	4	4	
13	4021283	Rod, Threaded, SS, 3/4-10 x 5.5 Lg	4	4	4	4	4	
14	1207358	Nut, Cap, SS, 3/4-10	4	4	4	4	4	
15	4021914	n/s Tape, Sealing, Black	a/r	a/r	a/r	a/r	a/r	

Note: For Temp Controllers see pages E29 and E30.

OptiFlo™ CF Control Assembly

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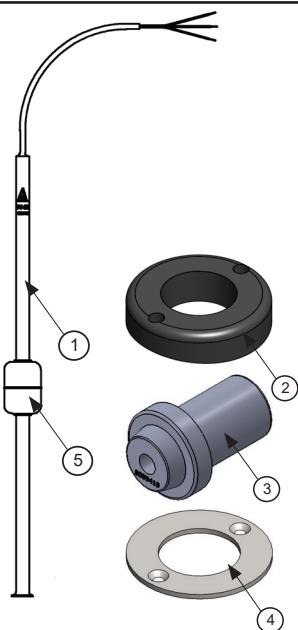
OptiFlo™ CF Control Assembly

ITEM	PART NO.	⊗=Obsolete n/s=Not Shown	DESCRIPTION	QTY REQUIRED (a/r=As Required)				
	4040133		Ctrl Assy, OFlo, 240V/1ph/2hp	0133				
	4040134		Ctrl Assy, OFlo, 240V/3ph/2hp		0134			
	4040135		Ctrl Assy, OFlo, 240V/3ph/5hp			0135		
	4040136		Ctrl Assy, OFlo, 480V/3ph/1hp				0136	
	4040137		Ctrl Assy, OFlo, 480V/3ph/3hp					0137
	4040138		Ctrl Assy, OFlo, 480V/3ph/5hp					0138
1	4029151		Base, Over Ride Relay	2	2	2	2	2
2	4040110		Relay, 1 C/O, 24 VDC	1	1	1	1	1
3	4040111		Relay, 1 C/O, 230 VAC	1	1	1	1	1
4	4040119		Disconnect, Non-Fused	1	1	1	1	1
5	-----		Lug, Ground	1	1	1	1	1
6	4040124		Switch, 2 Pos	1	1	1	1	1
7	4040126		Switch, 3 Pos, Toggle	1	1	1	1	1
8	4040125		Contact, 2-No, W/Holder	1	1	1	1	1
9	4040123		Contact, 1-No, W/Holder	1	1	1	1	1
10	-----		CSCR, HXH, SS, 1/4-20 x 1/2	1	1	1	1	1
11	-----		Washer, Lock, HLCL, Spr, SS, 1/4	1	1	1	1	1
12	4040098		Controller, O-Flo CF, 240V/1/2hp	1	-	-	-	-
	4040099		Controller, O-Flo CF, 240V/3/2hp	-	1	-	-	-
	4040100		Controller, O-Flo CF, 240V/3/5hp	-	-	1	-	-
	4040101		Controller, O-Flo CF, 480V/3/1hp	-	-	-	1	-
	4040102		Controller, O-Flo CF, 480V/3/3hp	-	-	-	-	1
	4040103		Controller, O-Flo CF, 480V/3/5hp	-	-	-	-	1
13	-----		MSCR, PNH, SS, 8-32 x 1/2	6	6	6	6	6
14	-----		Washer, Plain, SS, #8	4	4	4	4	4
15	-----		Wahser, Lock, HLCL SPR, SS, #10	5	5	5	5	5
16	-----		Washer, Lock, HLCL SPR, SS, #8	6	6	6	6	6
17	-----		MSCR, PNH, SS, 10-24 x 3/8	5	5	5	5	5
18	4040117		Handle, Disconnect	1	1	1	1	1
19	-----	n/s	Nut, Hex, MSCR, SS, 10-24	5	5	5	5	5
20	8513975 ¹	n/s	Probe Assy, 1.5 in., 28 in. (Multi-Float)	a/r	a/r	a/r	a/r	a/r
21	8501351 ¹	n/s	Probe Assy, 1.5 in., 48 in. (Multi-Float)	a/r	a/r	a/r	a/r	a/r
22	4040910		Fuse, TJS10-1	-	-	-	3	-
	4040911		Fuse, TJS15-1	-	3	-	-	3
	4040912		Fuse, TJS25-1	-	-	-	-	3
	4040913		Fuse, TJS30-1	2	-	-	-	-
	4040914		Fuse, TJS35-1	-	-	3	-	-
23	4040213		Key Pad, ACS-CPA-A, O-Flo CF	1	1	1	1	1

Note:
1 Repair Parts on C28.

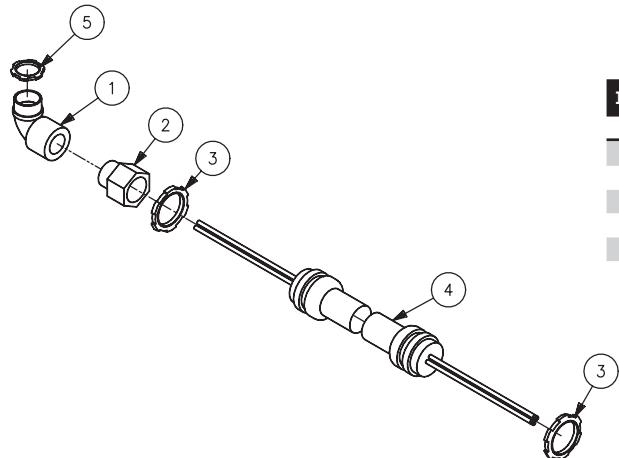
OptiFlo™ CF Float

ITEM	PART NO.	⊗=Obsolete n/s=Not Shown	DESCRIPTION	QTY REQUIRED (a/r=As Required)				
	8586109		KIT,PROBE,BGM, 17",3A	109				
	8583103		KIT,PROBE,FLOAT,2FT,3A		103			
	8582947		KIT,PROBE,FLOAT,3 FT,3A			947		
	8582948		KIT,PROBE,FLOAT,4 FT,3A				948	
	8582949		KIT,PROBE,FLOAT,6 FT,3A					949
	8582950		KIT,PROBE,FLOAT,9 FT,3A					950
1	8586108		PROBE,FLOAT,BGM, 17", 3A	1	-	-	-	-
	8583778		PROBE,FLOAT,2 FT,3A	-	1	-	-	-
	8583774		PROBE,FLOAT,3 FT,3A	-	-	1	-	-
	8583775		PROBE,FLOAT,4 FT,3A	-	-	-	1	-
	8583776		PROBE,FLOAT,6 FT,3A	-	-	-	-	1
	8583777	⊗	PROBE,FLOAT,9 FT,3A	-	-	-	-	1
2	8586105		HOLDER,PROBE,OPTIFLO CF,BGM	1	-	-	-	-
3	8582883	⊗	HOLDER,PROBE,CONTINUOUS FLOW	1	1	1	1	1
	8589419		HOLDER,PROBE,CONTINUOUS FLOW	1	1	1	1	1
4	8586107		CLAMP,PROBE HOLDER,BGM OPTIFLO	1	-	-	-	-
5	8594964		FLOAT,PROBE,OPTIFLO CF	1	1	1	1	1



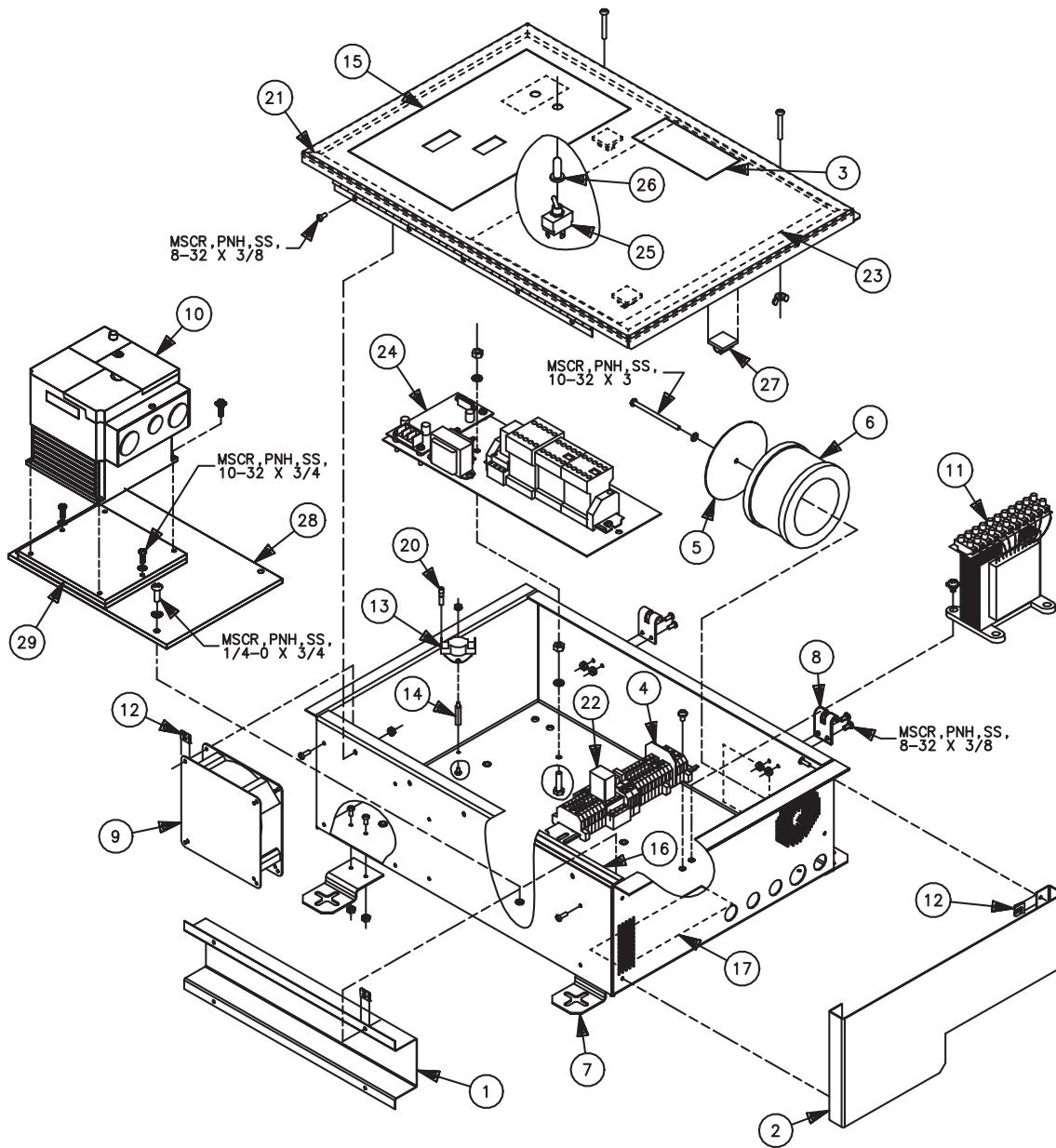
Opti-Flo Cable Kit

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ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)
	4024058	Kit, Cable EMI, Opti-Flo	-
1	4024059	Conn. Box, .50 Conduit x 90 DEG	1
2	4024061	Reducer Coupling, 3/4 FEM x 1/2 M	1
3	8509291	Nut, Lock, Conduit, 3/4 NPT, STL	2
4	8509305	Cable Assy, VSD, 14 GA, 15'	1
5	8513814	Nut, Lock, Conduit, 1/2 NPT, STL	1

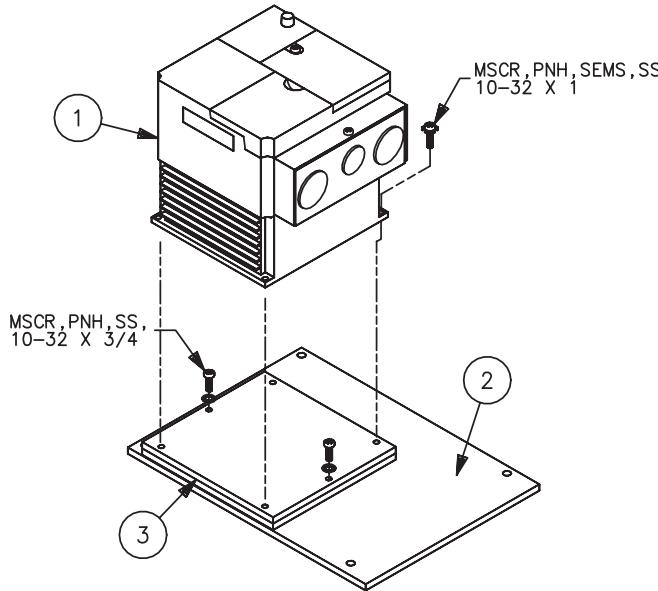
Opti-Flo III



Opti-Flo III (Cont.)

Item	Part No.	⊗ = OBSOLETE n/s = NOT SHOWN	Description	QTY REQUIRED (a/r=As Required)			
	4024552	⊗	Control Assy, 208-240V, Opti-Flo	552			
	4024553	⊗	Control Assy, 208-240V, w/Bypass	553			
	4024554	⊗	Control Assy, 380/460V, Opti-Flo		554		
	4024555	⊗	Control Assy, 380/460V, w/Bypass			555	
1	8501362	⊗	Duct, Fan, Opti-Flo II	1	1	1	1
2	8501372	⊗	Cover, Bottom, Opti-Flo II	1	1	1	1
3	8504733		Label, Warning, Electrical	1	1	1	1
4	8501364		Term Block Assy, Opti-Flo II	1	1	1	1
5	8501360		Clamp, Filter, Opti-Flo II	1	1	1	1
6	8511747		Filter, Air, 4.38 Dia x 2.38	1	1	1	1
7	8501361		Foot, Hanger, Opti-Flo II	4	4	4	4
8	8501363		Keeper, Latch, Opti-Flo II	2	2	2	2
9	8501368		Blower, 28 CFM, 230V, Opti-Flo II	1	1	1	1
10	4024594	⊗	Control Milkpump, Field Repl (shown)	1	1	-	-
	4024783	⊗	Control Milkpump, Fld.Repl, 460V	-	-	1	1
11	8501846		XFMR, Step-down, 230 VAC Output	-	-	1	1
12	3551467		Nut, Speed, SS, #8	12	12	12	12
13	8501847		Switch, Thermal, Opti-Flo II	1	1	1	1
14	3553436	⊗	Standoff, Hex, Brs, 6-23 x 1.00	2	2	2	2
15	8504169	⊗	Label, Cover, Opti-Flo III	1	1	1	1
16	4016780		Trim, Seal, Flexible	a/r	a/r	a/r	a/r
17	8501883	⊗	Label, Wiring, Term Blk Assy	1	1	1	1
18	4024558	⊗	n/s Filter, EMI, 3PH Input, Opti-Flo III	1	1	1	1
19	4024559	⊗	n/s Filter, EMI, 3PH Output, Opti-Flo III	1	1	1	1
20	8505763		Term, Disc, Fem, 22-18, 1/4 Full	1	1	1	1
21	8501370	⊗	Gasket, Cover, Opti-Flo II	1	1	1	1
22	8501367		Relay, 4 PDT, 240 V, 3a, Opti-Flo II	1	1	1	1
23	4024550	⊗	Label, Wiring Dia, 208-240V, Opti-Flo III	1	-	-	-
	4024673	⊗	Label, Wiring Dia, 208-240V, Bypass	-	1	-	-
	4024675	⊗	Label, Wiring Dia, 380/460V, Opti-Flo III	-	-	1	-
	4024676	⊗	Label, Wiring Dia, 380/460V, Bypass	-	-	-	1
24	4024851	⊗	Bypass Assy, Opti-flo III (Parts on page E-68)	-	1	-	1
25	1980909		Switch, Toggle, DPDT, On-None-On	-	1	-	1
26	3551793		Seal, Toggle Switch	-	1	-	1
27	1914002		Clamp, Cable, 3/8 Dia, Adh	-	3	-	3
28	4024472	⊗	Plate, Mounting, Opti-Flo III	1	1	1	1
29	4024473	⊗	Plate, Spacer, Opti-Flo III	2	2	-	-
30	- - - - -		Literature 9E-833 (Installation instructions)	ref	ref	ref	ref

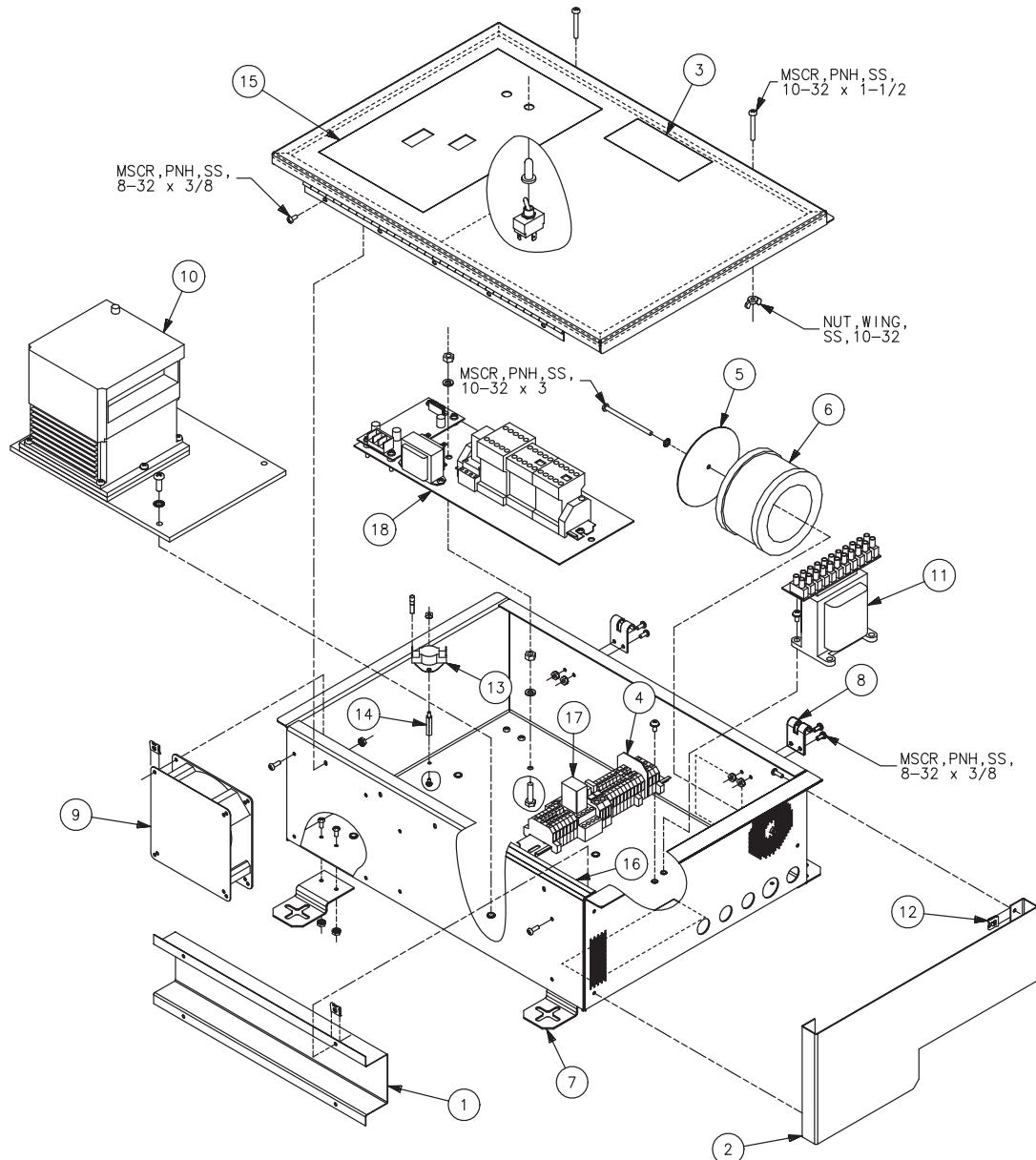
Opti-Flo II ABB Replacement Kits



Item	Part No.	⊗ = OBSOLETE n/s = NOT SHOWN	Description	Quantity Required	
	4024556	⊗	Kit, Magnetek Replace ABB, 230V	556	
	4024557	⊗	Kit, Magnetek Repl ABB, 380-460V	557	
1	4024594	⊗	Control, Milkpump, Field Repl	1	-
	4024783	⊗	Control, Milkpump, Fld.Repl, 460V	-	1
2	4024472	⊗	Plate, Mounting, Opti-Flo III	1	1
3	4024473	⊗	Plate, Spacer, Opti-Flo III	2	2
	4024558	⊗ n/s	Filter, EMI, 3PH Input, Opti-Flo III	1	1
5	4024550	⊗	Label, Wiring Dia, 208-240V, Opti-Flo III	1	-
	4024675	⊗	Label, Wiring Dia, 380-460V, Opti-Flo III	-	1
6	- - - - -		Literature 9E-832 (Installation instructions)	ref	ref

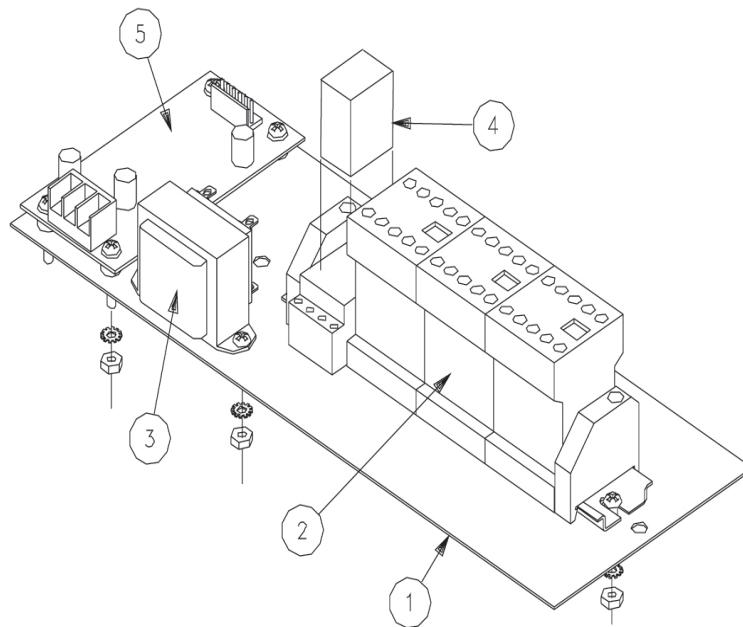
Opti-Flo II

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Item	Part No.	Description	Quantity Required		
8501399	⊗	Enclosure Assy, Opti-flo II, High Volt	1399	-	
4024252	⊗	Control Assy, 360/480V, w/Bypass	4252	-	
8501845	⊗	Enclosure Assy, Opti-flo II, Low Volt	-	1845	
4024251	⊗	Control Assy, 207-240V, w/Bypass	-	4251	
1	8501362	⊗ Duct, Fan, Opti-Flo II	1	1	
2	8501372	⊗ Cover, Bottom, Opti-Flo II	1	1	
3	4016123	Label, Warning, Disconnect Power	1	1	
4	4016123	Term Block Assy, Opti-Flo II	1	1	
5	8501360	Clamp, Filter, Opti-Flo II	1	1	
6	8511747	Filter, Air, 4.38 Dia x 2.38	1	1	
7	8501361	Foot, Hanger, Opti-Flo II	4	4	
8	8501363	Keeper, Latch, Opti-Flo II	2	2	
9	8501368	Blower, 28 CFM, 230V, Opti-Flo II	1	1	
10	4024557	⊗ Kit, Magnetek Repl ABB, 380/460V	1	-	
	4024556	⊗ Kit, Magnetek Replace ABB, 230V (shown)	-	1	
11	8501846	XFMR, Step-down, 230 VAC Output	1	-	
12	3551467	Nut, Speed, SS, #8	12	12	
13	8501847	Switch, Thermal, Opti-Flo II	1	1	
14	3553436	⊗ Standoff, Hex, Brs, 6-23 x 1.00	2	2	
15	8501782	⊗ Label, Cover, Opti-Flo II	1	1	
16	4016780	Trim, Seal, Flexible	a/r	a/r	
17	8501367	Relay, 4 PDT, 240 V, 3a, Opti-Flo II	1	1	
18	8501886	⊗ Bypass Assy, Opti-flo II (Parts on page E-68)	a/r	a/r	

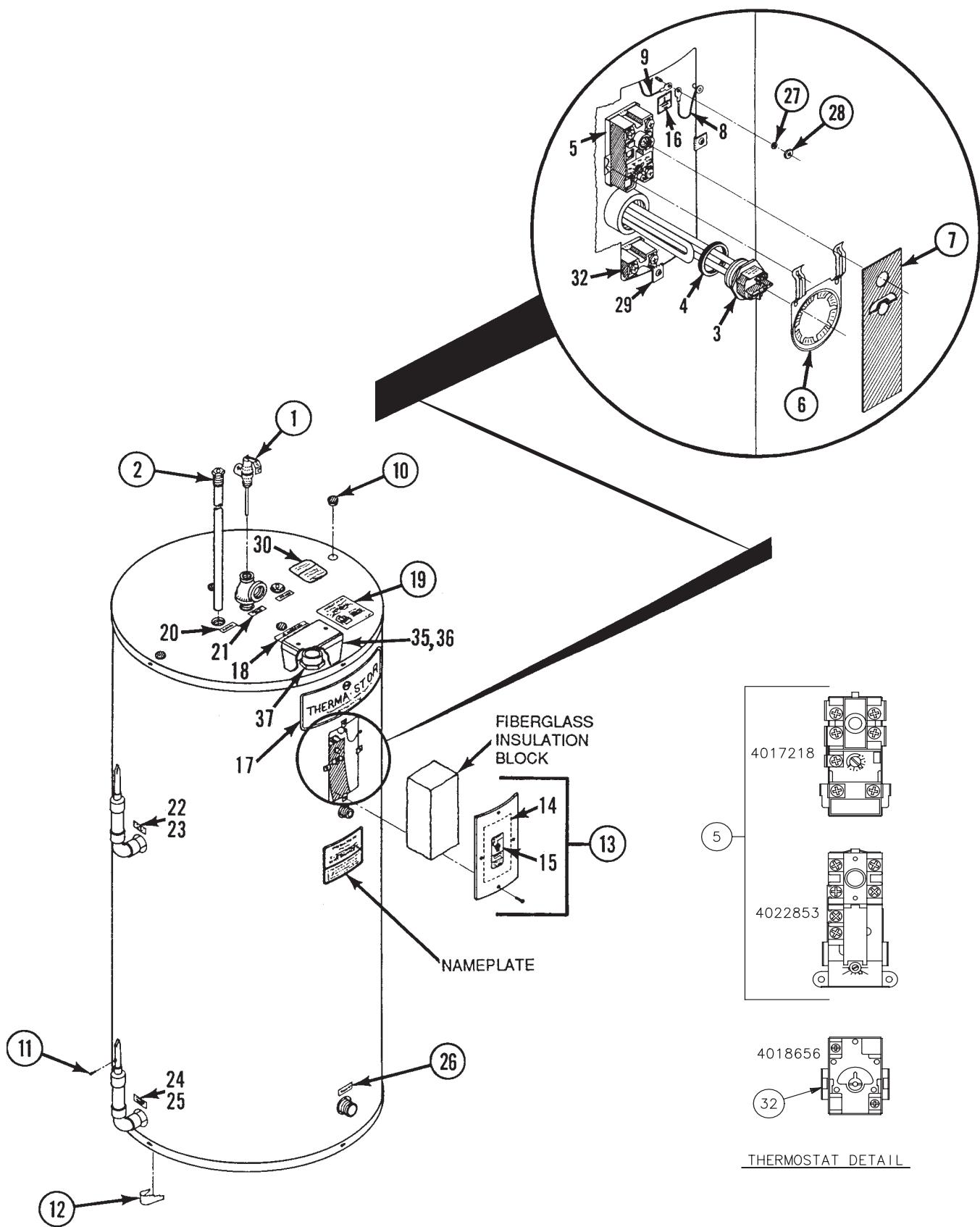
Bypass Assembly, Opti-Flo II and III



ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)		
	8501886	⊗ Bypass Assy, Opti-Flo II	1886		
	4024850	⊗ Bypass Assy, Opti-Flo II		4850	
	4024851	⊗ Bypass Assy, Opti-Flo III			4851
1	8501369	Bracket, Mtg, Bottom, Opti-Flo II	1	1	1
2	8502572	Term Blk Ass, Bypass, Opti-Flo II	1	1	1
3	8514091	Xfmr, 230V, 26V, 50/60 Hz	1	-	-
	8513443	Xfmr, 115/230V, 12/24, 50/60 Hz	-	1	1
4	8501367	Relay, 4 PDT, 240V, 3A, Opti-Flo II	1	1	1
5	8513985	Pwb Assy, Lig Level Timer	1	1	1
6	8516826	n/s Switch, toggle, DPDT, VDE	1	-	-
	1980909	n/s Swtich, toggle, DPDT, On-Off-On	-	1	1
7	3551793	n/s Seal, toggle-switch	-	1	1
8	8502571	⊗ n/s Label, Wiring, ByPass, 208-240V	-	1	-
9	8502346	⊗ n/s Label, Wiring, ByPass, 360/480V	-	1	-
10	4024673	⊗ n/s Label, Wiring, ByPass, 208-240V	-	-	1
11	4024676	⊗ n/s Label, Wiring, ByPass, 360/480V	-	-	1
12	- - - - -	Lit 9E-778	REF	-	-

**Therma-Stor Model III Therma-Stor Model
III-120-2 Dari-Kool III-120-2**

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Therma-Stor Model III Therma-Stor Model III-120-2 Dari-Kool III-120-2 (Cont.)

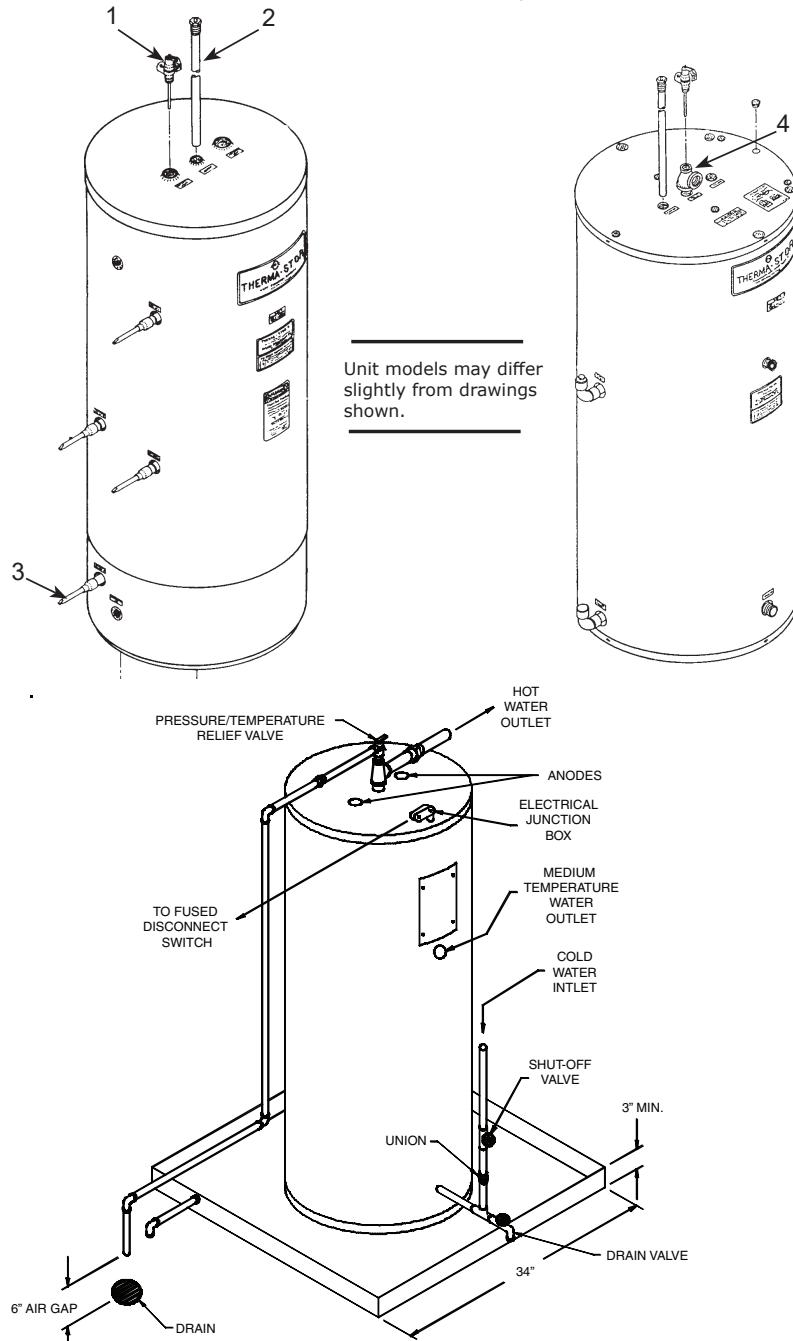
Item	Part No.	⊗ = OBSOLETE n/s = NOT SHOWN	DESCRIPTION	QTY. REQ. a/r=As Req.
	4016087	⊗	Therma-Stor, Model III	087
	4016547		Therma-Stor III-120-2	547
	4016975		Dari-Kool III-120-2	975
1	4020716		Valve, Temp/Press Rlf, 120/150	- 1 1
	4016022		Valve, Temp/Press Rlf, 120/150	1 - -
2	4016011		Anode, Htr, Magnesium, 56" (shown)	1 2 2
	4016054		Anode, Htr, Magnesium, 58", Lnkd	1 2 2
3	4016064		Heating Element, Water, 4500W	1 1 -
	4017665 ¹		Heating Element, Water, 6000W	1 1 1
			(Each includes item 4)	
4	4016130	⊗	Gasket, Heating Element	1 1 1
5	4017218 ³	⊗	Thermostat, 120-180 F	1 1 -
	4022853 ³		Thermostat, 120-180 F	1 1 1
6	4016368	⊗	Plate, Thermostat	1 - -
	4016537		Bracket, Thermostat, T-S III	- 1 2
7	4016140	⊗	Insulator, Thermostat	1 1 -
	4018654	⊗	Insulator, Thermostat	1 2 -
8	4016371	⊗	Wire Assy, 10 Ga, Grn, Strd, 6.00	1 1 1
9	4016372	⊗	Wire Assy, Ground	1 - -
	4016540	⊗	Wire Assy, 10 Ga, Grn, Strd, 18.50	- 1 1
10	8560272		Plug, Int, Plstc, 1.12	4 4 4
11	4012390		Valve Assy, w/Core, 1/4Sldr	1 - -
12	4016016	⊗	Foot, Leveling	3 1 1
13	4016244	⊗	Cover Assy, Jacket (Includes items 14 & 15)	1 - -
	4016549	⊗	Cover Assy, Thermo, TS-III (Includes item 14)	- 1 1
14	4016243	⊗	Label, Wiring Diag, T/S 3	1 - -
	4017984	⊗	Label, Wiring Diag	- 1 1
15	4016123		Label, Caution, Disconnect-Power	1 - -
16	8505776		Label, Ground, International	1 1 1
17	4014730	⊗	Label, Therma-Stor HRS	1 1 -
	4018255	⊗	Label, Dari-Kool, Thermo-Stor	- - 1
18	4016122	⊗	Label, Warning, Fill-Tank	1 1 -
19	4016124	⊗	Label, Warning, Relief-Valve	1 1 1
20	4016025	⊗	Label, Anode	1 2 2
21	4016026	⊗	Label, Relief-Valve	1 - -
	4016028	⊗	Label, Hot-Water Out	- 1 1
22	4016043	⊗	Label, Gas In 1	1 1 1
23	4016044	⊗ n/s	Label, Gas In 2	1 1 1
24	4016047	⊗	Label, Gas Out 1	1 1 1
25	4016048	⊗ n/s	Label, Gas Out 2	1 1 1
26	4016251	⊗	Label, Pwr-Off Before Draining	1 - -
	4016027	⊗	Label, Cold-Water In	- 1 1
27	1235384		Washer, Lock, Intl-T, SS, #10	2 2 2
28	1204379		Nut, Hex, Mscr, SS, 10-24	1 1 1
29	3551200		Nut, Speed, #8	4 4 4
30	4017433	⊗	Label, Caution, Relief Valve	- 1 1
31	-----			
32	4018656	⊗	Thermostat, 110-170 F, T/S	- 1 -
	4022854	⊗	Thermostat, SPST, 110-170 F	- - 1
33	-----		Literature SP-140 (Installation Instructions)	ref ref -
34	-----		Literature SP-141 (Owner's Instructions)	ref ref -
35	4016851	⊗	Box, Junction, Moisture-Proof	- 1 1
36	4016852	⊗	Cover, Junction Box, 2.00 x 4.00	- 1 1
37	4016116	⊗	Connector, Compression, 1/2	- 1 1
38	4020300	⊗ n/s	Tape, Insul, Foam, .50 x .50	- a/r a/r
39	-----		Literature 1E-138 (Installation instructions)	- - ref
40	-----		Literature 1P-137 (Owners Instructions)	- - ref

Note

1. Refer to nameplate to ensure proper wattage heating element is used.
2. Use insulator 4018654 as replacement only when thermostats 4017218 and/or 4018656 are present.
3. Thermostat 4017218 used only on units manufactured prior to 1990.
Thermostat 4022853 used only on units manufactured during or after 1990.

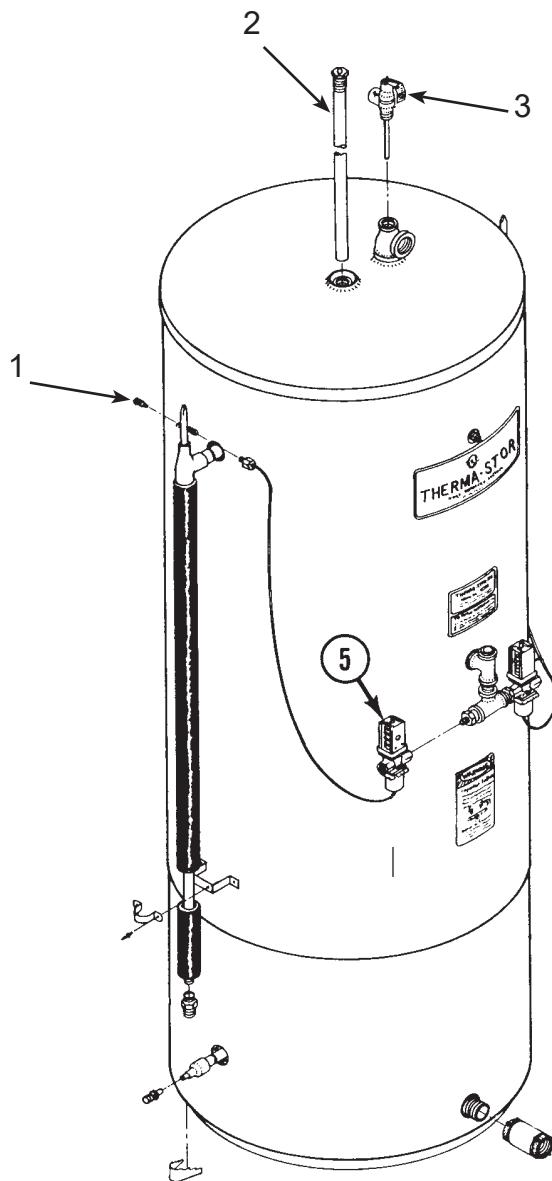
**Therma-Stor Models II, II-120-2-A, II-80-A
& II-120-4 Dari-Kool Model II-120-2-A**

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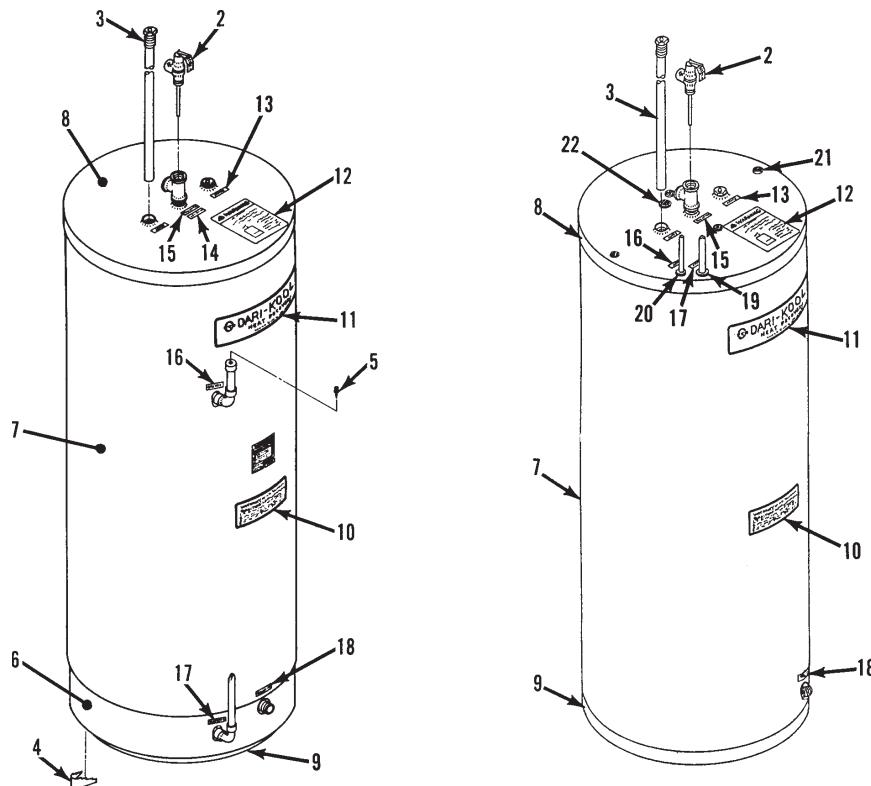
ITEM	PART NO.	⊗=Obsolete n/s=Not Shown	DESCRIPTION	QTY REQUIRED (a/r=As Required)					
4016000	⊗		Therma-Stor, Model II	6000					
4018910			Therma-Stor II-120-2-A		8910				
4019026			Dari-Kool II-120-2-A			9026			
4018875			Dari-Kool II-80-1-A				8875		
4032930			Therma-Stor II-80-2					2930	
4031531			Therma-Stor II-120-4						1531
1	4016022		Valve, Temp/Press Rlf, 210/150	1	-	-	-	-	-
	4020716		Valve, Temp/Press Rlf, 210/150	-	1	1	1	-	-
	4031836		Valve, Temp/Press Rlf, 210/150	-	-	-	-	1	1
2	4016011		Anode, Htr, Magnesium, 56" (shown)	2	2	2	2	2	1
or	4016054		Anode, Htr, Magnesium, 58", Lnd	2	-	-	2	2	1
3	4012390		Valve Assy, w/Core, 1/4 Sldr	2	-	-	-	-	-
4	1407752		Tee, Rdcr, Galv, 1-1/4 x 3/4 x 1-1/4	-	2	1	-	-	-

Therma-Stor Models 100 & 170



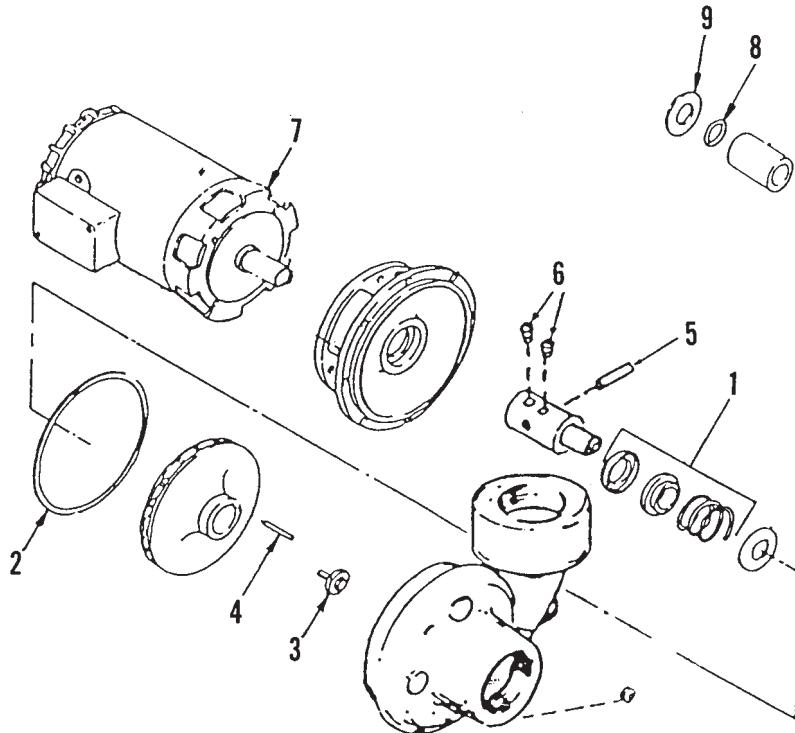
ITEM	PART NO.	⊗=Obsolete n/s=Not Shown	DESCRIPTION	QTY REQUIRED (a/r=As Required)	
	4014320	⊗	Therma-Stor 100 (ROG only)	4320	
	4014540	⊗	Therma-Stor 170 (ROG only) (shown)	4540	
1	4027130		Valve, Access, .25	2	4
2	4016011		Anode, Htr, Magnesium, 56" (shown)	1	1
or	4016054		Anode, Htr, Magnesium, 58", Lnk'd	1	1
3	4014097		Valve, Temp/Press Rlf, 210/75	1	1

Heat Recovery Systems Dari-Kool II-80-1 & II-80-1-A

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Item	Part No.	Description	Quantity Required	
	4016940	⊗ Dari-Kool II-80-1	6940	
	4018875	Dari-Kool II-80-1-A	8875	
1	- - - - -	Literature 1P-123 <i>(Installation Instructions)</i>	ref	ref
2	4016022	Valve, Temp/Press Rlf, 210/150	1	-
	4020716	Valve, Temp/Press Rlf, 210/150	-	1
3	4016998	⊗ Anode, Htr, Magnesium, 52"	2	-
	4016054	Anode, Htr, Magnesium, 58", Lnd	or 2	-
	4020819	⊗ Anode, Htr, Aluminum, 50"	-	2
4	4016016	⊗ Foot, Leveling	3	-
5	4012390	Valve Assy, w/Core, 1/4 Sldr	1	-
6	4016925	⊗ Jacket, Lower, Blue	1	-
7	4016926	⊗ Jacket, Upper, Blue	1	-
	4018890	⊗ Jacket Assy, 80,Blu	-	1
8	4016928	⊗ Cover, Dari-Kool II-80-1	1	-
	4018896	⊗ Pan, Top, 24.00, Wht	-	1
9	4021313	⊗ Pan, Bottom, 24.00, Galv	-	1
10	4016147	⊗ Label, Warranty Conditions	1	1
11	4018255	⊗ Label, Dari-Kool, Therma-Stor	1	1
12	4016124	⊗ Label, Warning, Relief Valve	1	1
13	4016025	⊗ Label, Anode	2	2
14	4016026	⊗ Label, Relief Valve	1	-
15	4016028	⊗ Label, Hot-Water Out	1	1
16	4016043	⊗ Label, Gas In 1	1	1
17	4016047	⊗ Label, Gas Out 1	1	1
18	4016027	⊗ Label, Cold-Water In	1	1
19	4017212	⊗ Bushing, Snap, Nylon, SB-750-625	-	1
20	4017211	Bushing, Snap, Nylon, SB-1000-12	-	1
21	8560272	Plug, Int, Plstc, 1.12	-	4
22	4019761	⊗ Plug, Int, Plstc, 1.63	-	1

Chiller Pumps, Models 16 and 18



ITEM	PART NO.	DESCRIPTION	QTY REQUIRED (a/r=As Required)							
	4020797	Pump, Chiller, 2Hp, 60 Hz, 230V, 1Ph	0797							
	4020817	Pump, Chiller, 2Hp, 60 Hz, 230V, 3Ph		0817						
	4020793	Pump, Chiller, 3Hp, 60 Hz, 230V, 1Ph			0793					
	4020818	Pump, Chiller, 3Hp, 60 Hz, 230V, 3Ph				0818				
	4020794	Pump, Chiller, 5Hp, 60 Hz, 230V, 3Ph					0794			
	4020795	Pump, Chiller, 7-1/2Hp, 60 Hz, 230V, 3Ph						0795		
	4024345	Pump, Chiller, 10Hp, 60 Hz, 230V, 1Ph (MFG - Scot Pump)							4345	
1	4021650	Seal, Buna Ceramic	1	1	1	1	1	1	1	1
2	4021651	O-ring, Buna	1	1	1	1	1	1	1	-
3	4021652	Retainer Assy, Impeller	1	1	1	1	1	1	1	-
4	4021660	Key Impeller	1	1	1	1	1	1	1	1
5	4021661	Pin, Groove	1	-	1	-	-	-	-	-
6	4021662	Screw, Set, Sleeve	2	-	2	-	-	-	-	-
7	4021664	Motor, Pump, 2Hp, 3Ph	-	1	-	-	-	-	-	-
8	4021677	O-ring, Buna	-	1	-	1	1	1	1	1
9	4021678	Slinger, Pump	-	1	-	1	1	1	1	1
10	4020796	Kit, Repair, Chiller Pump (Includes items 1, 2, 3, 4, 7 and 8)	1	1	1	1	1	1	1	-
11	4024347	Kit, Repair, Chiller Pump (Includes items 1, 2, 3, 4, 7 and 8)	-	1	1	1	1	1	1	1

BouMatic N-Series & Q-Series Plate Cooler

SECTION E	PAGE 75
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Item	Part No.	Description	Quantity Required									
			Q=Obsolete		n/s=Not Shown							
	4025981	KIT,COOLER,PLATE,N35SC0.5	5981									
	4025982	KIT,COOLER,PLATE,N53SC0.5		5982								
	4025751	COOLER,PLATE,N37SC1			5751							
	4025752	COOLER,PLATE,N81SC1				5752						
	4025753	COOLER,PLATE,N53SC3					5753					
	4025754	COOLER,PLATE,N77SC4						5754				
	4025755	COOLER,PLATE,N64DC3							5755			
	4025756	COOLER,PLATE,N100DC3								5756		
	4025757	COOLER,PLATE,N98DC4									5757	
	4040893	COOLER,PLATE,Q106DC3										0893
1	4025980	BRACKET,WALL,N-SERIES PH	1	1	-	-	-	-	-	-	-	-
2 ¹	4026118	Gasket, N 0.5, PHX	35	52	-	-	-	-	-	-	-	-
	4026123	Gasket, N 1, PHX	-	-	36	80	-	-	-	-	-	-
	4026128	Gasket, N 3, PHX	-	-	-	-	52	-	62	98	-	104
	4026133	Gasket, N 4, PHX	-	-	-	-	-	76	-	-	96	-
3	4026121	Gasket, N 0.5,38MM, Frame (circular)	4	4	-	-	-	-	-	-	-	-
	4026126	Gasket, N 1,51MM, Frame (circular)	-	-	4	4	-	-	-	-	-	-
	4026131	Gasket, N 3,76MM, Frame (circular)	-	-	-	-	4	-	6	6	-	8
	4026136	Gasket, N 4,101MM, Frame (circular)	-	-	-	-	-	4	-	-	6	-
4 ²	4026122	Gasket, N 0.5, Special, End	-	1	-	-	-	-	-	-	-	-
	4026127	Gasket, N 1, Special, End	-	-	1	1	-	-	-	-	-	-
	4026132	Gasket, N 3, Special, End	-	-	-	-	1	-	2	2	-	2
	4026137	Gasket, N 4, Special, End	-	-	-	-	-	1	-	-	2	-
5 ¹	4026119	Plate, N 0.5, All Open	33	48	-	-	-	-	-	-	-	-
	4026124	Plate, N 1, All Open	-	-	32	76	-	-	-	-	-	-
	4026129	Plate, N 3, All Open	-	-	-	-	48	-	59	95	-	102
	4026134	Plate, N 4, All Open	-	-	-	-	-	72	-	-	93	-
6 ²	4026120	Plate, N 0.5, All Blocked	2	5	-	-	-	-	-	-	-	-
	4026125	Plate, N 1, All Blocked	-	-	5	5	-	-	-	-	-	-
	4026130	Plate, N 3, All Blocked	-	-	-	-	5	-	5	5	-	13
	4026135	Plate, N 4, All Blocked	-	-	-	-	-	5	-	-	5	-
7	4041562	BOLT,COOLER,PLT,N35SC0.5	4	-	-	-	-	-	-	-	-	-
	4041561	BOLT,COOLER,PLT,N53SC0.5	-	4	-	-	-	-	-	-	-	-
	4041568	BOLT,COOLER,PLT,N81SC1,N37SC1	-	-	4	4	-	-	-	-	-	-
	4041569	BOLT,COOLER,PLT,N53SC3	-	-	-	-	8	-	-	-	-	-
	4041566	BOLT,COOLER,PLT,N77SC4	-	-	-	-	-	6	-	-	-	-
	4041565	BOLT,COOLER,PLT,N64DC3,N100DC3	-	-	-	-	-	-	8	8	-	-
	4041563	BOLT,COOLER,PLT,N98DC4	-	-	-	-	-	-	-	-	6	-
	4041570	BOLT,COOLER,PLT,Q106DC3	-	-	-	-	-	-	-	-	-	8

Note

1. Main plate or gasket as labeled Odd Numbered Plates and Even Numbered Plates
2. Special plate or gasket as labeled Plate, Plate 1 or Plate 2

BouMatic N-Series & Q-Series Plate Cooler (cont.)